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| RSVP to Membership Chair Bradley Biehn at [Bradley.Biehn@nasa.gov](mailto:Bradley.Biehn@nasa.gov) if you plan to attend so that we can estimate headcount for food orders. | | |
| **Logo, company name  Description automatically generated** |  |  |
| **Karsten Lies** **Ansys ModelCenter**  **Thursday, July 21, 2022 | 5:30 PM CDT**  **UAH – Wilson Hall – Room 209**  **Masks Recommended at UAH** | | |
| **Supporting Digital Mission Engineering through Integrated Modeling and Simulation** | | |
| ***Option to attend via ZOOM…details provide below*** | | |

**Agenda**

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| **Time** | **Meeting Topic** | **Presenter** |
| **5:30 – 6:00 PM CDT** | ***Meet-and-Greet Meal Time***  $5 honor box donation – Members only |  |
| **5:45 PM CDT** | **Zoom Meeting started** |  |
| **6:00 – 6:15 PM** | INCOSE Announcements | Tony Lindeman |
| **6:15 – 7:00 PM** | Supporting Digital Mission Engineering through Integrated Modeling and Simulation | Karsten Lies |
| **7:15 – 7:45 PM** | INCOSE – HRC Board Meeting | Tony Lindeman |

**Abstract**

As organizations begin their digital transformations and adopt modern digital engineering solutions, a common challenge is how to best provide for disconnected teams so they can contribute to the engineering process across the entire lifecycle of the product or program. Successful transition across critical phases, such as moving from early conceptual designs to system test and evaluation, often requires fragmented teams to adopt baseline physics and simulation tools that can quickly ingest system models while evolving and improving fidelity as the product or program matures.

In this presentation, we will take a look at combining Ansys's best-in-class advanced modeling and simulation tools, while leveraging ModelCenter’s integration and orchestration capabilities to provide an executable architecture to explore complex system of systems design and tradeoffs. In particular, we will look at modeling sensing and RF system models to capture the development of a constellation of satellites for wildfire detection across the continental United States. System behavior and requirements are described in SysML model diagrams, helping to drive the execution of the integrated analysis tools for the overarching simulation.

Join us to see the power of using MBSE for systems design to bridge the gap between behavioral and analytical models, providing the (conduit for higher fidelity model validation) framework for architecture trade studies and requirements conformance analyses.

**Speaker Biography**

Karsten Lies has 33 years of professional experience in the engineering software field, working with ModelCenter products and services for the last 3 years. He has supported engineering product development, with solutions ranging from CAD, CAE, and Risk Assessment to PLM and engineering process automation. Karsten is currently the manager for Ansys ModelCenter application engineers globally, helping to support customers drive for solution innovation and accelerated product development. Karsten has a bachelors degree in Mechanical Engineering from the University of Lowell in Lowell, MA.

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| ***ZOOM Meeting Log-in Information***  Join Zoom Meeting  <https://incose-org.zoom.us/j/91413320588?pwd=bWZRZDZuRVdVV1FSZUZzN3FsSEN1UT09>  Meeting ID: 914 1332 0588  Passcode: 596086  877 853 5257 US Toll-free  888 475 4499 US Toll-free  Find your local number: <https://incose-org.zoom.us/u/adpZh1o4jb>  Join by Skype for Business  <https://incose-org.zoom.us/skype/91413320588> |

# Driving Directions to Meeting

**Traveling East on I-565:**

From I-565, traveling East, take the Sparkman/Bob Wallace/Space Center exit. Turn left onto Sparkman Drive. Travel North on Sparkman Drive across I-565 and through the first traffic light. Merge into the far right lane traveling to the second traffic light. That lane must turn right onto the UAH campus.   
  
On the campus, follow the road a short block to a fork and bear left. You will quickly come to a Stop sign and should bear left again. Follow this road through the round-about taking the second exit, under the Holmes Street Bridge and through another Stop sign.   
  
At the Stop sign, you will be in front of the Business Administration Building to the right. The next building is Wilson Hall. It is a large, brown brick building, which is contemporary in style with broad bands of white trim. You may park in any of the available parking places that serve the Business Administration Building, Wilson Hall, the student dorm, and the Bevill Center.  
  
**Traveling West on I-565:**From I-565, traveling West, take the Sparkman/Bob Wallace/Space Center exit. Turn right onto Sparkman Drive. Travel North on Sparkman Drive across I-565 and through the first traffic light. Merge into the far right lane traveling to the second traffic light. That lane must turn right onto the UAH campus.   
  
On the campus, follow the road a short block to a fork and bear left. You will quickly come to a Stop sign and should bear left again. Follow this road through the roundabout taking the second exit, under the Holmes Street Bridge, and through another Stop sign.   
  
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**Parking  
Important Parking Restrictions:**

* Park ONLY in the Commuter Area parking lot directly in front of Wilson Hall; those parking in other areas may be subject to parking tickets
* Park ONLY after 5:30 pm; those arriving before 5:30 pm may be subject to parking ticketsMap

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# Huntsville – HRC LinkedIn Group

Sign up for the Huntsville INCOSE Chapter LinkedIn group at:

<http://www.linkedin.com/groups?gid=1796955>

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