



Welcome to the 4th Annual Great Lakes Regional Conference. This year's theme is Systems Engineering: Managing Today's Complexity. Our field has been consistently rated as one of the best contemporary professions and we are gathered here to share knowledge, camaraderie, and insights into the techniques that help us overcome the challenges we face everyday.

I would like to acknowledge our partners, the Engineering Society of Detroit and the Detroit Chapters of ASM International and the National Defense Industry Association. We are also indebted to our sponsors, BAE Systems, Booz Allen Hamilton, and Project Performance International.

Finally, I extend our thanks to the speakers and attendees, without whom this conference would not be possible. We look forward to seeing all of you at next year's regional.

Sincerely,  
 Michael J. Vinarcik  
 Treasurer, INCOSE Michigan Chapter  
 Organizing Committee Chair

Organizing Committee Members:  
 Troy Peterson, Bob Reed, and Jack Stein (Michigan Chapter);  
 Dale Smith (Chicagoland Chapter); Dan Surber (Crossroads of  
 America Chapter); Karen Bausman (Wright Brothers Chapter)

# 4th Annual INCOSE Great Lakes Regional Conference

## Systems Engineering: Managing Today's Complexity

### PROGRAM SCHEDULE

| <u>Start</u>    | <u>End</u> | <u>Name</u>                  | <u>Paper</u>   |
|-----------------|------------|------------------------------|--|
| <b>Saturday</b> |            |                              |  |
| 8:45            | 9:15       | John J. Gill, BAE Systems    | Biomimicry   |
| 9:30            | 10:00      | Thomas L. McKinley           | Systems Engineering in Diesel Engine Selective Catalytic Reduction Research  |
| 10:00           | 10:30      | Joseph G. Maley              | Using MBSE and Iterative Interviews to Model and Improve Business Processes  |
| 10:30           | 11:00      | William K. Day               | Roles and Importance of Use Cases in Systems Engineering   |
| 11:30           | 12:00      | Bill Schindel                | What is the Smallest Model of a System?  |
| 12:00           | 1:00       | Lunch                        |  |
| 1:00            | 1:30       | Dr. Stefan Jockusch          | Systems Driven Product Development -- a framework for development, manufacturing and service of complex mechatronic products |
| 1:30            | 2:00       | James D. Bell/Igbal Al-Latif | Integration of Systems Engineering Management and Program Management   |
| 2:00            | 2:30       | Jonathan M. Weaver           | Re-Engineering the Systems Engineering V: The Systems Engineering Double V   |
| 2:30            | 3:00       | Michael J. Vinarcik          | Using Case Studies to Illustrate Key Systems Engineering Principles: CONTOUR   |
| 3:00            | 3:30       | Break                        |  |
| 3:30            | 4:00       | Frederick Samson             | A Systems Engineering & Integration Methodology For Complex Systems  |
| 4:00            | 4:30       | Troy Peterson                | Technology Insertion   |
| 4:30            | 5:00       | Cihan Dagli                  | Systems Engineering Research and Education   |
| 5:30            | 6:00       | Steven Walter                | The Basilica di Santa Maria del Fiore: Lessons Learned   |
| 6:00            | 6:30       | Break                        |  |
| 6:30            | 8:00       | Mark Fisher/Dinner           | Design Thinking: A Human-Centered Design Approach  |
| 9:30            | 4:00       | Dan Surber                   | CSEP Study Session   |
| <b>Sunday</b>   |            |                              |  |
| 9:00            | 11:00      | Charles S. Wasson            | System Phases, Modes, and States of Operation: Controversy and Enlightenment   |
| 9:00            | 2:00       | Loren Mark Walker            | SysML Tutorial   |
| 11:00           | 12:00      | Peterson/Vinarcik/Stein      | Panel Discussion w/Officers  |
| 12:00           | 1:00       | Lunch                        |  |

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