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Forward Look**June**

Fault Tolerant
Wireless Avionics
Bus (FT-WAB)

JORGE R BUENFIL
ROCKWELL
COLLINS

June 24, 2004 5:30-
7:30 pm

KTOS
Cedar Rapids,
Iowa



**Rock Island
Arsenal Tour**

Rock Island, Illinois
August 7, 2004
Registration limited to 25
US Citizen Only



**COSYSMO
Tutorial**

9 am - 5 pm
Cedar Rapids,
Iowa

**Saturday,
September 25,
2004**

SYSTEMICO



President's Message

By Tony Thompson

Two INCOSE publications will arrive in your mail in May, namely INSIGHT and the Systems Engineering Journal. These publications are two benefits of your membership.

Please remember that INSIGHT is a newsletter. As such, each issue contains information pertaining to a designated theme, status/information of INCOSE's chapters, working groups, and committees, and information of interest to the general membership. In this regard, you are invited to submit articles.

Please send your submissions to insight@incose.org.

For more information regarding INSIGHT, visit the INCOSE website at www.incose.org/insight.html.

Newsletter Naming Contest

CONGRATULATIONS and thanks for everyone's participation!!!

Results of the contest:

Winner: "SYSTEMICO"
2nd place: "The Heartland Herald"
3rd place: "SPECS"

SYSTEMICO is our chapter newsletter and is published bi-monthly. SYSTEMICO contains chapter news, recent programs and upcoming events, status, reports, websites pertaining to systems engineering, including links to standards, agencies, INCOSE working groups, etc.

In this regard, you are invited to submit articles. Please remember that submittals must meet the criteria in the following categories:

1. BOOK REVIEW -- keep to 200-300 words, include title, author, publisher, cost in US\$, your name and email
2. PEOPLE ON THE MOVE -- 1-2 sentences about your new position and responsibilities; include email address
3. WORKING GROUP REPORTS -- status of the technical activities, needs, work products, etc.
4. INDUSTRY NEWS -- initiatives that are not specific to a company, that may be of benefit to membership; 200-250 words (no press releases, please)
5. COMMENTARY/EDITORIAL -- comments on material and opinions in previous issues, reference the newsletter issue, author, and subject; 200-250 words

Please send your submissions to JRBuenfi@RockwellCollins.com

Back issues can also be found on the INCOSE Heartland website.

June Presentation - "Fault Tolerant Wireless Avionics Bus (FT-WAB)"

By Jorge R Buenfil

This presentation explores the possibility of using fault-tolerant wireless communications to act as a bus in an aircraft. Currently no aircraft is known to use wireless communications to convey signals from sensors to the avionics applications and from there to the actuators that control the aircraft's behavior. A new generation of commercial and military airplanes is scheduled to start using a fiber-optic channel as their main bus. As wireless technology evolves, the possibility of using a wireless network to replace the wired bus in an aircraft needs to be studied. The benefits of such a fault tolerant wireless avionics bus (FT-WAB) are presented along with limitations and drawbacks to that approach.

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*SYSTEMICO is published bi-monthly.
Send articles and suggestions to
JRBuenfi@RockwellCollins.com*



Object Oriented Systems Engineering Method (OOSEM) Tutorial – Outbrief

By Ray Jorgensen

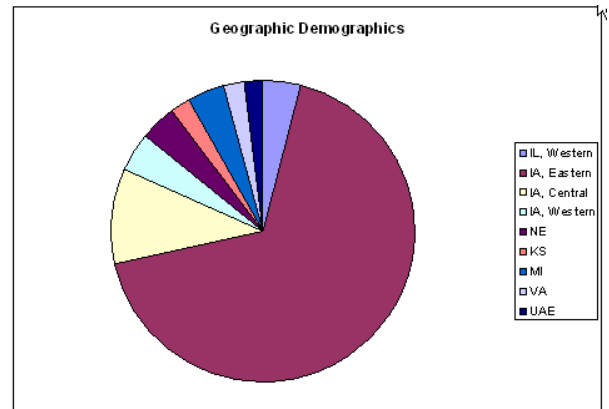
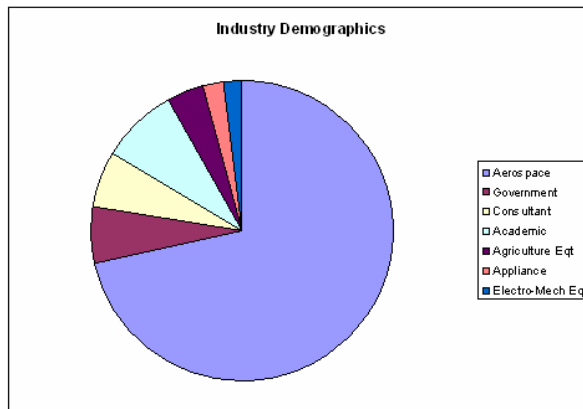
Mr. Sandy Friedenthal of Lockheed Martin presented a tutorial on behalf on the INCOSE Heartland Chapter on Saturday, March 27. The tutorial was titled “Object Oriented Systems Engineering Method (OOSEM)” and focused on the application of Unified Modeling Language (UML) concepts applied toward the Systems Engineering discipline. The OOSEM method utilizes a top down systems approach, in conjunction with Object Oriented (OO) concepts and adaptations of the Unified Modeling Language (UML) to model systemslevel requirements and design. A major goal of OOSEM is to exploit object oriented techniques for specifying and designing complex systems, and to ease integration with object-oriented methods for software engineering. The tutorial also explored different concepts in adaptations to UML that are being proposed for a System Modeling Language (SysML). Mr. Friedenthal leads the System Design Interest Group (SDIG) of the Object management Group (OMG) which is exploring application of UML toward complex system definition.

The tutorial was well-received by attendees, with a steady stream of dialogue between the students and the instructor. Mr. Friedthal did an excellent job of presenting his topic and addressing questions as they came from the floor. Attendees appeared to walk away with a new awareness of recent developments in UML concepts and their application to systems engineering.

There were 31 students in attendance: 4 government employees, 2 university faculty, 3 university students, 1 contractor, and the remaining from various business units of Rockwell Collins. 24 of the students are not currently members of INCOSE or the

INCOSE Trivia: *How many official members does INCOSE Heartland Chapter have?* 49.

Membership Demographics



Members Only Area

To get recent Chapter announcements from INCOSE Central, Working Group Subscription services, register at the following web-sites:

Heartland Members: <http://incose.propagation.net/mailman/listinfo/heartlandmembers>

Heartland BOD: <http://incose.propagation.net/mailman/listinfo/heartlandbod>

INCOSE Chapters Reflector: http://groups.yahoo.com/group/incose_chapters/

Post Message: mailto:incose_chapters@yahoogroups.com

Subscribe: mailto:incose_chapters-subscribe@yahoogroups.com

Unsubscribe: mailto:incose_chapters-unsubscribe@yahoogroups.com

List Owner: mailto:incose_chapters-owner@yahoogroups.com

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