

# The Integrator

INCOSE North Star Chapter



Volume 2, Issue 2

April 2006

## North Star Newsletter

*INCOSE North Star Newsletter Communication*

This year's newsletter will feature a series of articles on urban transportation by guest contributor, Ed Anderson.

Contact [Eileen.Arnold@incose.org](mailto:Eileen.Arnold@incose.org) to contribute articles, topic suggestions, and usable information for our members.

Eileen Arnold, Editor BAE Systems

*"You can't wait for inspiration. You have to go after it with a club."* [Jack London](#) (1876 - 1916)

### Systems Engineering at its Best!

This is the first of a planned series of articles on the Systems Engineering behind the development of a much improved form of urban transportation. The process was started many years ago by a few engineers who did something about the oft-repeated conjecture: "There must be a better way to move around in cities!"

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## WELCOME, NORTH STAR NEW MEMBERS!

NameLast	Title	Company
Michael Anderson	Lead Engineer	GD-AIS
Robert Bailey	Sr. Prin. Sys. Eng.	ATK
Nathan Hering	Eng. Stds. Coord.	Mercury Marine
Scott Maik	Senior Sys. Eng.	Beckman Coulter, Inc.
Christian Milaster	Principal Engineer	Mayo Foundation
Sameer Wadhwa	Senior Consultant	Infosys Tech. Ltd

## Chapter Presidents Corner

Bob Hunter  
ATK

Well, we're off to another good start. We've had our first four meetings of the year, all of them well attended (in spite of an inopportune snow storm!).

The board has received feedback from several of you on the quality and usefulness of the programs. We appreciate getting this information and will use it to help shape the (still evolving) program for the rest of the year. We are also planning on conducting a member survey later in the year, with the idea of getting more useful feedback and bring you the most professionally beneficial experience possible.

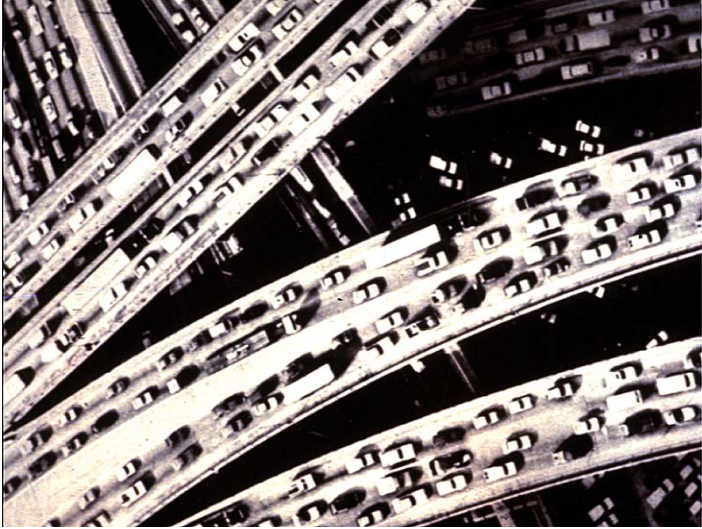
Last month's program was on Systems Engineering Education. The colleges were appreciative of all who attended. Think about the role of university degree programs in the development of your career. You may choose to take on and complete a degree program, an individual class here and there, or attend one of the Chapter's tutorials; all ways to advance your knowledge and credentials.

As noted, the future program is in flux, but we are exploring the possibility of touring Anderson Renewal's (the made-to-order branch of Anderson Windows) factory later in the summer.

Hope to see you at the May meeting!

[North Star Chapter Website](http://www.incose.org/northstar)

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9. Increasing road rage.
10. Concern about excessive sprawl.
11. The large subsidies required for transit. In the Twin Cities, fares for transit service cover less than a quarter of its operating costs and none of its capital costs.
12. The easy targets buses and trains make for terrorists.

The question I will address in the next issue of The Integrator is this: How can we devise a new system of ground transportation for urban areas that address all of these problems?

J. Edward Anderson

The Systems Engineer will first state the problem for which a solution is desired, in statements that can have operational significance. Here is a list of problems of urban transportation:

1. Increasing congestion and the delays and uncertainties it involves.
2. A growing awareness that it is foolish to depend on a steady supply of cheap oil.
3. Increasing concern about the effects of the air pollution produced by automobiles on both the local and global environment.
4. Huge amounts of expensive land required for parking automobiles. In major activities centers the automobile consumes roughly 50 to 70% of the land.
5. Excessive use of energy
6. Over 40,000 persons killed per year and many more injured in auto accidents. Many of those you see in wheelchairs are there because of an auto accident.
7. The overwhelming dominance of the auto even has auto executives concerned. See the report called Mobility 2030 produced by the World Business Council for Sustainable Development ([www.wbcd.org](http://www.wbcd.org)).
8. The need for a driver's license by everyone who wishes good access to the services of a city, including the elderly who should not be driving and would rather not drive.

### 2006 Meeting Calendar

<b>11 May</b>	<b>Certification</b>	Goodrich
<b>8 June</b>	<b>Symposium Papers</b>	Medtronic
<b>13 July</b>	<b>INCOSE International Symposium</b>	Orlando, FL
<b>10 August</b>	<b>Summer Social and Symposium Debrief</b>	Anderson Renewal
<b>7 September</b>	<b>Environmental Engineering</b>	Environ Labs
<b>12 October</b>	<b>Logistics and Life Cycle</b>	Eaton
<b>9 November</b>	<b>Human Engineering</b>	Eco Labs
<b>14 December</b>	<b>Member Holdiay Party + Guest</b>	

Hope to see you in May! North Star Leadership