



300 participants in the 3rd Israeli conference on Systems Engineering

Dr. Avigdor Zonnenshain, RAFAEL ,The President of INCOSE_IL

Challenges for Systems Engineering

On the September 20-21, 2005 the Israeli Chapter of INCOSE (INCOSE_IL) has conducted the 3rd National Conference on SE.

The Conference was led as Chairman by Mr Israel Livnat, CEO, Elta, IAI.

Over 300 Systems Engineers from all types of industries and the defence industries gathered for two days, eager to learn new approaches of SE, and to benefit from sharing the experience with their peers.

The opening ceremony was addressed by the Chief scientist of Israel, Dr. Eli Opher, who challenged the Systems Engineers to implement the SE methodology in the Nano-Technologies and Bio-Technologies industries.

The Chief of Staff of the IAF proposed that the Systems Engineers should design the reality instead of being surprised by the events. Also he proposed that companies should invest in their capabilities in order to be prepared for any scenario.

Modern Approaches for SE

The first day of the conference included 27 interesting lectures on modern issues like:

- Network Centric Operations
- SE for Designing Space Systems
- Algorithms for Systems Integration
- Autonomous Systems

One Track was sponsored by the Bernard M. Gordon Center for Systems Engineering at the Technion. This Track was devoted to Research in Systems Engineering, discussing the issues like:

- Effects of Team Composition and Team Processes on the Conceptual Design of new Product.
- Optimal Synthesis of Solution principles.

The World Belongs to the Youngsters.

A group of High School students described a project in Robotics. These students have participated in International Competition (FIRST) - for developing and building Robots and then engaging in a competition with other teams. This group was guided by Systems Engineers from RAFAEL, and followed the SE process.

The Systems Engineers as Part of the Business process

The first day of the conference was concluded by a panel of senior managers, like Mr. Yair Haramati (CEO of MALAM/IAI) and Mr. Haim Shani (CEO of NICE Systems).

The panel discussed the ways to implement effective SE in changing environment.

All speakers proposed that the Systems Engineers should be involved in the business process (and not only in the technical process), and will be part of shortening the Time to Market. As one of the managers stated be on time with 80% of performances, instead to be late with 100% performances.

Challenging Seminars

The second day of the Conference was devoted to 3 full day seminars, presented by 3 experts from USA & Australia:

- Viewing SE from outside the box Prof. Joseph Kasser (Australia)
- Evolving to Intelligent SE Jack Ring (USA)
- Interface Identification & Integration Algorithms Jeffrey O.Grady (USA).

Concluding Remarks and what Next?

It was an excellent conference. The feedback of the participants was very positive.

As we say in Israel "It gave us a taste of more".

We start to plan for the next National Conference on October - November 2006.