



“Systems Engineering in 2016”

Presented by the “father” of the systems engineering Vee diagram, Kevin Forsberg.



Invitation to two 2-day tutorials

21-22 Nov 2016 at CSIR ICC in Pretoria, Gauteng

30 Nov-01 Dec 2016 at SKA premises, Pinelands, Cape Town

Day One

- 0 - Introduction and SE References
- 1 - Mission and System Architecture
- 2 - Requirements Engineering
- Exercise - Requirements Best Practices
- 3 - Principle of Concept Selection...
- Discussion of FRR Case Study

Day Two

- 4 - SE Processes & functions
- 5 - Concept of Ops (CONOPS, OPSCON)
- Discussions of WIRE Case Study
- 6 - Making Decisions
- 7 - Capability Based Acquisitions
- Decision Analysis Exercise (House Buy)

Registration Fees

R 2'000 for current INCOSE SA members

R 3'500 for non-members

Includes 2-day tutorial with evening function and commemorative wine glass

Registrations: www.incose.org.za/Events

Enquiries: president@incose.org.za

RÉSUMÉ SUMMARY OF KEVIN FORSBERG

INCOSE Pioneer, ASME and INCOSE Fellow, INCOSE ESEP

- Co-author of **Visualizing Project Management**, J. Wiley & Sons, (1994, 2001, 2005)
- Co-author of **Communicating Project Management**, J. Wiley & Sons, 2002.
- Co-editor of the **INCOSE SE Handbook**, versions 2a, 3.0, 3.1, 3.2, 3.2.2, and 4.0
- Author of the **Vee chart** and its elaboration (1989 to present)

Dr. Forsberg draws on 27 years of industrial experience in systems engineering, project management, and proposal management, and 33 years of successful consulting to both government and industry. His experience ranges from research projects, to development efforts, through to full-scale production implementation. Since 1983 he has provided training and consulting to both government and commercial clients.

He specializes in systems, hardware and software project management, and the related processes, techniques, and skills essential to achieving predictable project performance.

Dr. Forsberg has presented one- to two-week seminars in over a dozen countries.

Career Highlights:

- Member of the Lockheed Corona Project, America's first successful satellite (1956-61)
- Manager, Solid Mechanics Laboratory, and Deputy Director, Materials & Structures, Lockheed Research Lab, Palo Alto, CA
- Lockheed Program Manager of the Space Shuttle tile project for seven years, from research through full-scale production
- Lockheed new business division, proposal manager on major bids
- Lockheed Program Manager of the Space Station Program (Phase A)
- Co-founder of and active participant in two consulting and training firms: Center for Systems Management and OGR (Old Goats Rule), Inc.

Awards

- NASA Public Service Medal (1981) **"in recognition of his outstanding technical and managerial contributions to the Space Shuttle Program."**
- CIA Seal Medallion **for excellence in Project Management training, and in recognition of his pioneering efforts in the field of Project Management** (1998).

Education

- Ph.D., Engineering Mechanics, Stanford University (1961)
- M.S., Engineering Mechanics, Stanford University (1958)
- S.B., Civil Engineering, Massachusetts Institute of Technology (1956)