



IW2014

25 – 28 January 2014

Los Angeles, CA

- Strategy session
- Attendance of workshop and meetings
- Wine tasting

- Strategy session feedback

Working groups I

- Architecture
- Complex Systems
- SE Effectiveness
- Competency
- Agile Systems & Agile SE
- Knowledge management
- INCOSE CAB: SE Learning & development framework
- Enterprise system (formerly intelligent enterprises)
- Training
- Process improvement
- Systems Science

Working groups II - Processes

- Systems of systems
- Model-based conceptual design
- Requirements
- Measurement
- Lean SE
- Systems security engineering
- Human systems integration

Working processes III - Industry

- Product lines
- Automotive
- Very small entities
- Infrastructure
- Power & energy systems
- Affordability
- Biomedical & healthcare



2014



Suja Joseph-Malherbe

IS2014

30 June – 3 July 2014

Las Vegas, NV

- Strategy session
- Industry related tracks – automotive, biomedical & healthcare, energy, infrastructure
- Leadership & SE
- SE competency

- Strategy session feedback



A WORLD IN **MOTION***

Systems Engineering Vision • 2025

← → ↻ www.incose.org/newsevents/news/index.aspx

INCOSE
International Council on Systems Engineering

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Newsroom

To submit a news item, please send an e-mail to the news@incose.org

[Model-Based Conceptual Design \(MBCD\) Issues Survey Launched](#)

[INCOSE and INCOSE Foundation 2013 Annual Reports](#)

[Systems Engineering Vision 2025!](#)

[INCOSE and Wiley offering a Free Publishing Workshop at IS 2014](#)

[Stevens Signs Memorandum of Understanding with INCOSE for Collaborative Res](#)

[INCOSE Annual International Symposium 2014 takes place This Month](#)

[Industry Outreach Board](#)

[Call for Nominations for Pioneer, Founder and Outstanding Service Awards](#)

[Systems Engineering Fundamentals Tutorial Webinar](#)

[Leadership Skills for Systems Engineers Tutorial Webinar](#)

[Six Reasons Why You Should Attend the International Symposium](#)

[Certification Program Updates](#)

[INCOSE 2013 Election Results](#)

[Survey on use of Enterprise Architecture Frameworks](#)

[Opening for BKCASE Editor-in-Chief](#)

[2013 Election Opens 1 November at 12 AM Pacific Time - be sure to vote!](#)

[INCOSE Foundation Scholarship Deadlines](#)

[Webinar 57: President Elect Candidates 2013 present their platforms for INCOSE](#)

[Systems Engineering Certification Tutorial Webinar](#)

[Call for Fellows Nominations](#)

[IS2014 Change of Venue and Deadline Extension for Submissions](#)

[Latest news from ABET](#)

[Survey on Relationship between System Engineering Competencies and Project S](#)

[Suja Joseph-Malherbe](#)

News & Events

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- Industry related tracks – automotive, biomedical & healthcare, energy, infrastructure
- Leadership & SE
- SE competency



Introduction to Systems Engineering

Learn how the discipline of systems engineering can lead to the successful development of complex systems.



About the Course

Systems engineering is an interdisciplinary approach to design, implementation and evaluation that holds the key to the successful development of complex human-made systems. This course explores a framework encapsulating the entire systems engineering discipline, clearly showing where the multitude of associated activities fits within the overall effort and how the activities relate to one another. Systems engineering is a very broad discipline, so we also discuss how the concepts and procedures could be applied to individual projects. A new theme will be explored each week using presentations to introduce and synthesise key concepts, examples to simulate authentic contexts, and structured activities to guide your learning.

The course is relevant to all professions associated with the introduction of complex human-made systems: project managers, engineers, quality assurance representatives, integrated logistic support practitioners, operators, managers, maintainers, and so on, from students to professionals, from novices to experienced practitioners, from technical to non-technical people.

Sessions

Apr 28th 2014 - Jun 30th 2014

Join for Free

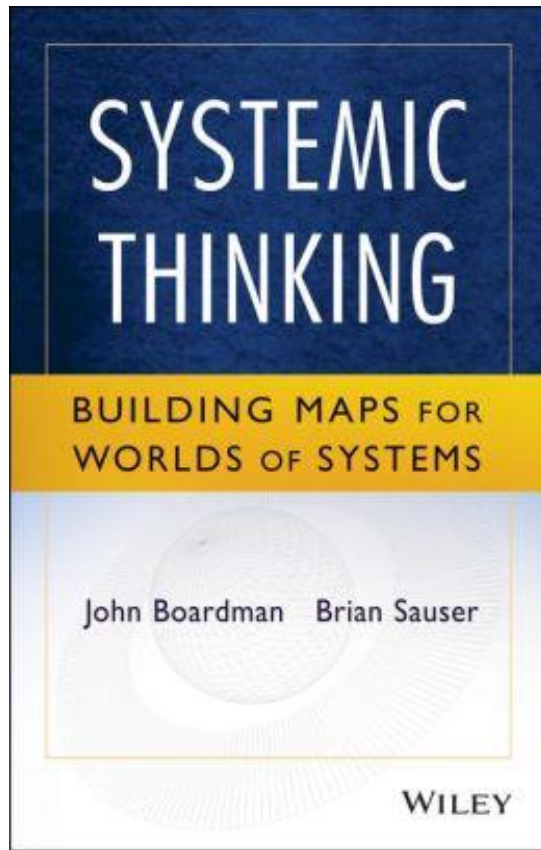
Eligible for

Verified Certificate

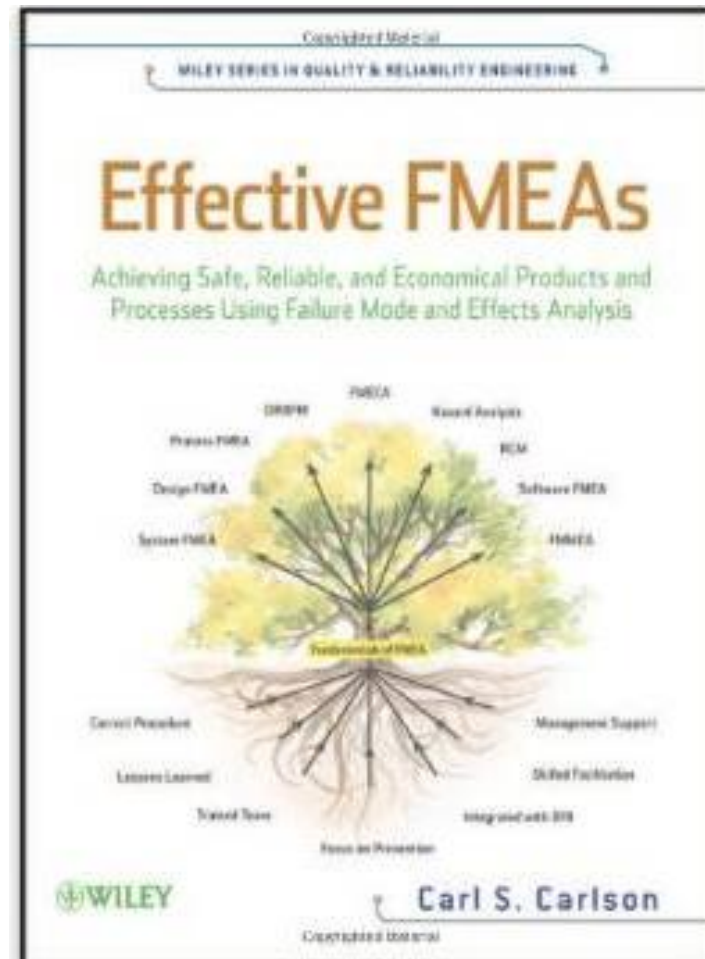
Statement of Accomplishment

Course at a Glance

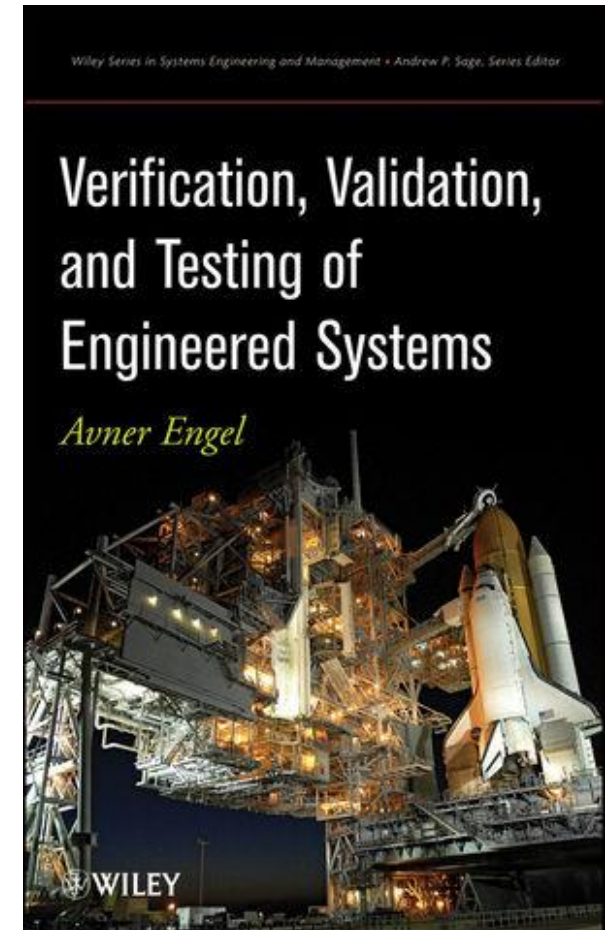
- 9 weeks of study
- 4-5 hours of work / week
- English
- English subtitles



2014



Suja Joseph-Malherbe



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Suzanne Joseph Matherbe

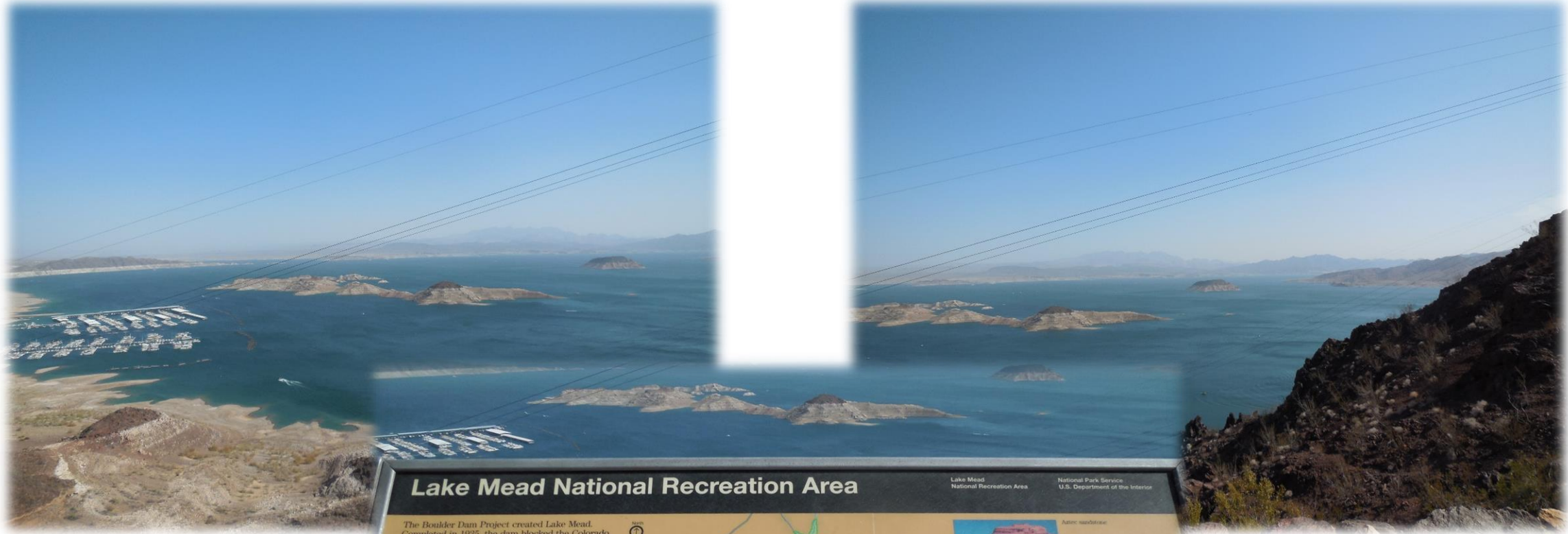


2014



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Lake Mead National Recreation Area

Lake Mead National Recreation Area
National Park Service
U.S. Department of the Interior

The Boulder Dam Project created Lake Mead. Completed in 1935, the dam blocked the Colorado River as the river turned southward here into Black Canyon. The backed-up waters formed a 110-mile-long series of basins and coves, now known collectively as Lake Mead.

Since its establishment in 1936, the recreation area around Lake Mead has been managed by the National Park Service. In 1947 Boulder Dam was renamed Hoover Dam. At that time the area of Lake Mohave, stretching 67 miles southward from Hoover Dam to Davis Dam, was added to the recreation area.

In 1964 Congress established this entire area as Lake Mead National Recreation Area. This was the first nationally designated recreation area in the country.

Lake Mead flooded the ancient canyons of the Colorado and its tributaries. Native plants, ruins, and abandoned towns disappeared under the water. Yet away from the lake shore, the landscape of the dry canyon country is little changed.

Autumn sandstone

Joshua tree habitat

Lake Mead at Kingman Wash

Sunset

Willow Beach shoreline



HOOVER DAM

1
9
3
1



1
9
3
5

Suja Joseph Mamerbe

221 m high
379 m wide
203 m thick at the base
13 m thick at the top
\$165 million dollars to build
4.5 years to build
4.4 million meters of concrete used for construction



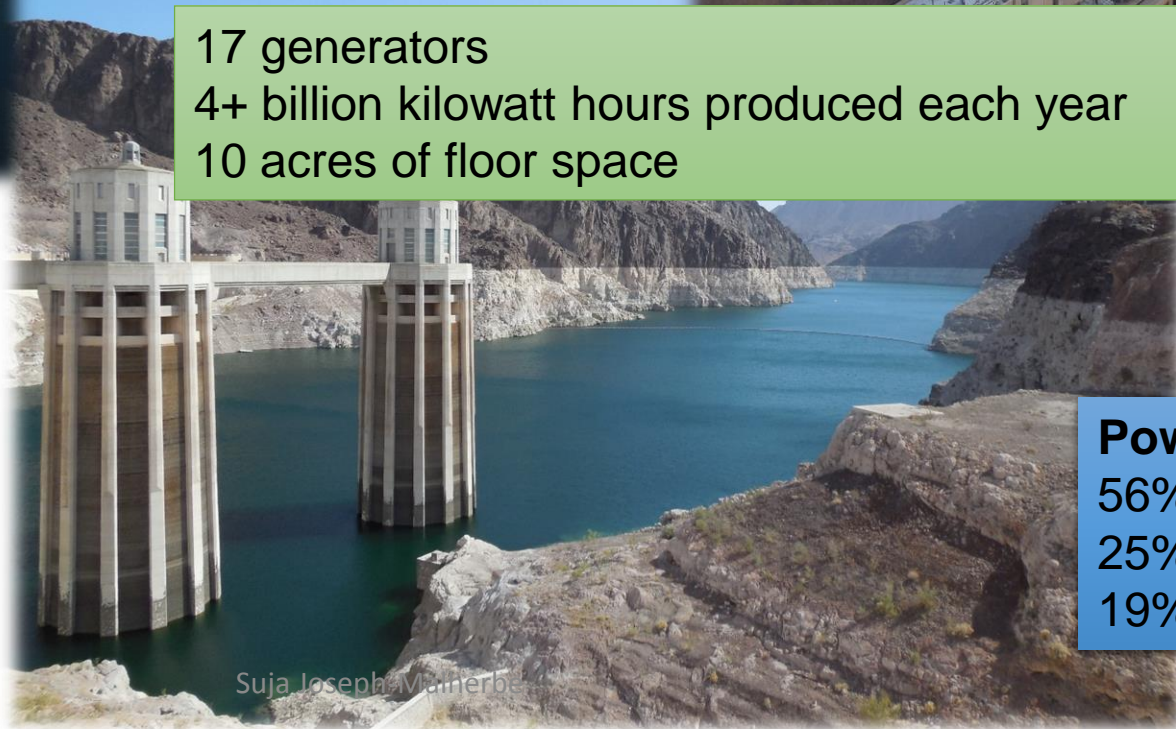
17 generators
4+ billion kilowatt hours produced each year
10 acres of floor space

HOOVER DAM

1
9
3
1



1
9
3
5



Power used by:
56% California
25% Nevada
19% Arizona



Grand Canyon: 446 km long, up to 29 km wide and attains a depth of over a 1.8 km



IW2015

24 – 27 Jan 2015

Los Angeles, CA

IS2015

13 – 16 Jul 2015

Seattle, WA



Celebrating twenty-fifth-ness



EMEA Systems Engineering Conference (EMEASEC) 2014

27 - 30 October 2014

Somerset West

South Africa