List of Public Publications and Talks

by

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1. *Study: How to Set up Collaboration between the Norwegian Energy Industry and the US space industry - Conclusions, Recommendations, and the First Collaboration Project,* Invited Speaker, Space – Energy Collaboration Conference May 4, 2010, Zaza Hotel, Houston, TX May 4, 2010

2. *Follow-up activities from the Autonomy in IO 2009 conference: Potential collaboration between the Norwegian energy industry and the US space industry,* Invited Speaker, co-authors, Dr. Khaled S. Ali & Dr. Issa A.D. Nesnas, Jet Propulsion Laboratory – JPL, Norsk Forening For Automatisering (NFA), Autonomy in Integrated Operations (AiIO) Conference, Måltidets Hus, iPark, Ullandhaug, Stavanger, Norway, February 10-11, 2010

3. *A NASA/JPL developed Approach for increasing innovation, creativity, quality, and efficiency, through all project phases,* ASTE527 Space Concepts Studio at The University of Southern California – USC, Los Angeles, California November 24, 2009

4. *Potential Collaboration, Between the Norwegian offshore oil- and gas industry and JPL/NASA: A Study to Explore how to Set Up and Implement such a Collaboration*, Invited Speaker (via Video)*, Technology Transfer between Space and Energy Industry, Conference, Statoil, IB Bygget, Forus, Stavanger, Norway, June 5, 2009*

5. *JPL Relevant Technologies for the Energy Industry and Seabed Rig,* co-authors Dr. Khaled S. Ali & Dr. Issa A.D. Nesnas, Mobility and Robotics Section, Jet Propulsion Laboratory – JPL, Invited Speaker (via Video), Technology Transfer Space and Energy Conference, StatoilHydro IB Center, Stavanger, Norway, June 5, 2009

6. *Transindustrial Technology Usage*, Article, SubSea Technology II, Media Planet, May 29, 2009

7. *Automation and Autonomy in other industries - Space and Nuclear. What can the oil- and gas industry learn from them,* Invited Speaker, Norsk Forening For Automatisering (NFA), Autonomy in Integrated Operations (AiIO) Conference, Måltidets Hus, iPark, Ullandhaug, Stavanger, Norway, February 18-19, 2009

8. *Concurrent Design: Increased innovation, creativity, quality, and efficiency, through all project phases*, Invited Speaker, the Center for Integrated Facility Engineering, Stanford University, Stanford/Palo Alto, California, January 23, 2009

9. *Concurrent Design: Increased innovation, creativity, quality, and efficiency, through all project phases, ASTE527 Space Concepts Studio, the University of Southern California – USC, Los Angeles, California, December 1, 2008*

10. *Concurrent Design: Increased innovation, creativity, quality, and efficiency, through all project phases,* Invited Speaker, the "Undervannsoperasjoner 2008" Conference, "Prosjekter som kommer", *Haugesund, Norway*, *August 6-7, 2008*

11. *Future: Working in Real-Time*, Invited speaker, 5 min Vignette, COFES 2008, Scottsdale, AZ, April 11, 2008

12. *Concurrent Design: The Work Method of Space brought Down to Earth, Procensus Business Center Networking Lunch, Stavanger, June 14, 2007*

13. *Concurrent Design*, Invited Speaker, Statoil's Company wide Friday Forum, IB Center, Forus, Stavanger, December 15, 2006

14. *Bedret konkurranseevne, øket kreativitet, bedre kvalitet, øket "fun" faktor og større effektivitet:Concurrent Design - Romfartens arbeidsmetodikk bragt ned på Jorden*, Norges teknisk-naturvitenskapelige universitet NTNU, Institutt for Marin Teknikk, Trondheim, 24. november, 2006

15. *NASA technology applied to oil and gas***,** the Norwegian Petroleum Society'sIntelligent fields and integrated operation Conference, Session 3 - What can we learn from *other* industries and disciplines? Radisson SAS Atlantic Hotel, Stavanger, September 13-14, 2006

16. *From Drilling on Mars to Drilling in the North Sea, Fra Boring på Mars,* The Statoil Concurrent Design Workshop, Session I: Experiences so far, Statoil, Rotvoll, Trondheim, December 8, 2005 (Norwegian only)

17. *Improved Competitiveness, Increased Creativity, Improved Quality, Increased "Fun" Factor and Improved Effectiveness: Concurrent Design – Bringing the Space Industry's Work methods down to Earth*, Invited Speaker, The Norwegian University of Science and Technology - NTNU, Institute for Marin Technology, November 24, 2005 (Norwegian Only)

18. 100 Years _Ago - The First to Conquer the Northwest Passage: The Roald Amundsen and "Gjøa" Story, Invited Speaker, California Lutheran University, sponsored by the American Scandinavian Foundation, September 9, 2005

19. *From Life on Mars to Hydrocarbons in the North Sea*, Invited Dinner Speaker, Fiskeklubben, The Norwegian-American Chamber of Commerce, Nansenfield, Los Angeles, April 29, 2005

20. Adventure on Mars; What will it take? Invited Speaker, The Adventurers' Foundation, Night Of High Adventure - NOHA, Santa Monica, CA, October 16, 2004

21. *Concurrent Design: Improved Quality and Reduced Time to Market,* Presentation at the Concurrent Design Laboratories Seminar for Statoil, LAX Marriott Hotel, Los Angeles, CA, September 24, 2004.

22. *Conquering the Northwest Passage: Roald Amundsen and "Gjøa,"* Invited Speaker, the Adventurers Club of Los Angeles, Los Angeles, CA, July 15, 2004

23. *Finding Life on Mars: Developing and Building a "Rover Prototype" in 3 1/2 Hours*, Concurrent Design Mini-Seminar for Girl Scout of America Master Trainers, Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA, October 6, 2004

24. *Co-locating Design Teams and the Eight principles of Concurrent Design*, Invited Speaker,the Society of Concurrent Product Development – SCPD, Chula Vista (San Diego), CA, March 16, 2004

25. *Mars Rover Design Experiences Applied to Earthly Applications,* Invited Speaker, the Santa Clarita Valley CEO Forum, Hedmann and Associates, Valencia, CA, May 13, 2004

26. *Scientifically Promising Mars Analog Sites on Svalbard: Glaciers, Ice Caps, Warm Springs, Volcanoes, and Gullies, Presentation,* Amundsen, H.E.F., sub-author, Workshop on Analog Sites and Facilities for the Human Exploration of the Moon and Mars, University of Colorado, School of Mines, Golden, CO, May 21-23, 2003

27. *Designing the Next generation Design Process,* Center for Space Mission Information and Software Systems - CSMISS IT Symposium 2002, Cross-Cutting Themes Session, Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA, November 4, 2002

28. *Concurrent Design: Creating Winning Space Missions Through Extreme "Knowledge" Sharing,* Invited Speaker, Intel Worldwide Knowledge Management (KM) Roundtable Series, via telecon, Pasadena, CA, October 22, 2002

29. *Concurrent Design: A Winning Cross-Disciplinary Analysis and Design Approach,* Featured Speaker, Center for Space Mission Information and Software Systems - CSMISS IT Spotlight Series, Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA, October 16, 2002

30. *Concurrent Design: An Integrated Cross-Disciplinary Analysis and Design Approach,* Keynote, and *Utilization of Integrated High-End Analysis and Design Tools in Real-Time Concurrent Design Environments,* the Thermal Fluid Analysis Workshop (TFAWS) 2002, University of Houston, Clear Lake, Texas, August 12-16, 2002

31. *Concurrent Design at JPL: Status and Plans,* Presented at the NASA New Design Paradigms, Workshop, Cross-Industrial Experience Session, Pasadena, CA, June 25-27, 2002

32. *Concurrent Design - The Next Generation Design Paradigm*, Invited Speaker, International Interdisciplinary Research Exchange Symposium, Manufacturing Session, organized by the Japan Science and Technology Corporation (JST), Keio Plaza Hotel, Tokyo, March 1-2, 2002

33. *Concurrent Design - Real-Time and Concurrency - Educating the Next Generation Space Professionals*, Invited Speaker, Symposium on Human Resources in Space Development, organized by the Japan Space Forum (JSF), and sponsored by the Ministry of Education, Culture, Sports, Science, and Technology (MEXT), the Space Activities Commission (SAC), the Institute of Space and Astronautical Science (ISAS), and the Japanese Space Agency (NASDA), National Olympics Memorial Youth Center, Tokyo, Japan, February 26, 2002

34. *Spaceborne Microwave Instrument for High Resolution Remote Sensing of the Earth's Surface Using a Large-Aperture Mesh Antenna*, co-author with E. Njoku (PI), W. Wilson, S. Yueh, R. Freeland, W. Edelstein, G. Sadoway, D. Farra, R. West, T. Campbell, W. Lawrence, Y. Rahmat-Samli, H. Feingold, G. Didinsky, R. Rauwolf, M. Thomson, G. Konicke, JPL Publication 01-09, Pasadena, California, September 2001

35. *Concurrent Design: Where We were, Where We are, Where We Need to Go,* Keynote, and *NPDT The Future is Now*, The 5th World Multi-Conference on Systemics, Cybernetics and, Informatics, Creating the Image for New Systems Session, Orlando, Florida, July 23-25, 2001

36. *Concurrent Design Approaches at JPL,* Presented at the NASA New Design Paradigms, Workshop, Cross-Industrial Experience Session, Pasadena, CA, June 26-29, 2001

37. *The Next generation Payload Development Team (NPDT) -Small Discovery Spacecraft,* Included in the Computerworld – Smithsonian (D.C.) Permanent Collection on the IT Revolution, San Francisco, April 8, 2001

38. *Project Design Center - The NPDT Approach*, Talk at the Graduate School of Space and Systems Design Engineering, Keio University, Hiyoshi Campus, Yokohama, Japan, September 21, 2000

39. *Project Design Center - The NPDT Approach*, Keynote Speaker, Satellite Concept Design Work Shop, Tsukuba Space Center, Tsukuba, Japan, September 20, 2000

40. *The NPDT - The Next Generation Concurrent Design Approach*, EUSEC 2000, The 2nd European Systems Engineering Conference, Session 1.6 - Concept Design Center 1, Munich, Germany, September 13-15, 2000

41. *Computer Accelerated Conceptual Design Development of Spacecraft*, Second Lunar Development Conference: Return to the Moon II, Habitat Session, Las Vegas, Nevada, July 20-21, 2000.

42. *Team I, The Art of Concurrent Design,* Invited dinner talk at the National Design Engineering Show (NDES), Chicago, IL, March 14, 2000

43. *Team I, The Art of Concurrent Design,* Presented at the Space & Robotics 2000 Conference, Session 6 – Astronomy, Albuquerque, NM, February 28, 2000

44. *The Use of STEP standards in the Team I Concurrent Design Process*, Presented at the NASA's STEP for Aerospace Workshop, Pasadena, CA, January 24, 2000

45. *Team I, A New Design Paradigm,* Presented at the Rogaland Forskningspark, Stavanger, Norway, December 21, 1999,

46. *Exploration of Mars, Crew Surface Activities*, Co-author, Human Exploration and Development of Space - University Partners (HEDS-UP), Mars Exploration Forum 1999, Lunar and Planetary Institute, Houston, Texas, May 6-7, 1999.

47. *A Concurrent Design Environment for Designing Space Instruments*, 9th Thermal & Fluids Analysis Workshop, Ohio Aerospace Institute/NASA Lewis Research Center Cleveland, Ohio, August 31-September 3, 1998.

48. *Concurrent Design Used in the Design of Space Instruments,* The International Space University Alumni Conference 1998, Cleveland, OH, July 24, 1998.

49. *Concurrent Design: An Application to the Design of Space Instruments*, Space & Robotics 98 Conference, Track 5.2 Commercialization and Commercial Projects II, Albuquerque, NM, April 27, 1998.

50. *A Concurrent Design Approach for Designing Space Telescopes and Instruments*, SPIE Conference, Kona, Hilo, March 1998.

51. *A Total Systems Analysis Method, for The Conceptual Design of Spacecraft: An Application to Remote Sensing Imager Systems*, Old Dominion University, Ph.D. Dissertation, advisor Dr. Laurence D. Richards, May 1996.

52. *A Total Systems Analysis Method, for The Conceptual Design of Spacecraft: An Application to Remote Sensing Imager Systems*, Mini seminar given at the Project Design Center (PDC) at the Jet Propulsion Laboratory, Pasadena, CA, April 4, 1996.

53. *Commercial Remote Sensing Satellites, the Technical Systems Model, A Progress Report,* Old Dominion University Research Foundation, Report Prepared for NASA LaRC, Hampton, VA,, advisor Dr. Laurence D. Richards, July 1995.

54. *A Method for Evaluating and Optimizing Large Space Projects: An Application to Commercial Remote Sensing Systems*, Old Dominion University Research Foundation, Report Prepared for NASA LaRC, Hampton, VA, co-author Dr. Laurence D. Richards, July 1994

55. *Evaluating and Optimizing Large Infrastructure Space Projects*, Presented to the Business and Management Department at the International Space University, Huntsville, AL, July 30, 1993.

56. *A Markow Chain Analysis of the Life Cycle of a Lunar Transfer Vehicle*, Old Dominion University, Norfolk, VA, 1992.

57. *Evaluation and Optimization of Large Space Projects - A Total Systems Approach*. Presented to the Boeing Defense and Space Group, Advanced Civilian Space Systems, Huntsville, AL, December 7, 1992.

58. *A Study of Petri-Nets for Modeling and Analysis of Complex Systems*, NASA Contract NAS1-18584--Task Assignment No. 105 (181051), NASA LaRC, Hampton, VA, co-author Dr. Resit Unal, December 1992.

59. *Space and Offshore - New Opportunities for the Norwegian Offshore Industry*, the Norwegian Oil Review - NOR, No. 7, 101, 18 pages, August 1992. (Special Section on the Parallels between Offshore and Space Technologies).

60. *Costing of Large Space Projects - An Offshore Analogy*. Presented to the Space Solar Power Design Project - SSPP, the International Space University (ISU), Kita Kyushu, Japan, July 17, 1992.

61. *An Investment Analysis Model for Space Mining Ventures*. Presented at the IAF Conference in Montreal, Canada, 1991.

62. *International Asteroid Mission (IAM),* the International Space University (ISU), co-author, Toronto, Canada, 1990.

63. *A study of the Structure and the Dynamics in the Market for Aviation Services*. (Thesis required for the Ms. in Economics at Norges Handelshøyskole, the Norwegian School of Economics and Business Administration.), NHH, Bergen, Norway, 1984.

64. *A Business Man's Guide to Indonesia*, Bergen Bank, Bergen, Norway, 1984.