

Rick Dove – Brief Bio

- CEO, Paradigm Shift International, HC81 Box 17, Questa, New Mexico, 87556
- Partner, Kennen Technologies, Albuquerque, NM
- Adjunct Professor, Stevens Institute of Technology, Hoboken, NJ
- 575-586-1536, dove@parshift.com



Rick is an Adjunct Professor at Stevens Institute of Technology in the School of Systems and Enterprises, where he develops and teaches graduate courses in the engineering and design of agile systems, self organizing systems, systems of systems, and enterprise systems – with an emphasis on resilient and innovative response, agile security, system interoperability, and self organization. The School gave him the 2013 Navigator Award for “leading the way for students in systems engineering.”

Rick is a partner in Kennen Technologies, LLC, which licenses patented IP for a breakthrough VLSI massively-parallel pattern-recognition processor – removing cost/time/accuracy tradeoffs in complex pattern recognition applications. Rick was PI for two DHS SBIR contracts that supported the IP prototyping through production licensing.

Rick founded Paradigm Shift International in 1991 as an agile system and enterprise research, development, and project management firm; providing program and interim executive management for agile systems and enterprise projects; and security applications based on the Kennen IP, with Rick as PI for DHS and then DoD SBIR contracts for large scale immune-system-like anomaly detection and cortical-like hierarchical sense-making.

He is author of Value Propositioning - Perception and Misperception in Decision Making, Icen Books, 2005; author of Response Ability: The Language, Structure, and Culture of the Agile Enterprise, Wiley, 2001, and co-author of 21st Century Manufacturing Enterprise Strategy, Diane Pub Co, 1991.

He is a Fellow of the International Council on Systems Engineering (INCOSE), won the INCOSE Outstanding Service Award in 2018, and chairs the working group for Agile Systems and Systems Engineering and the working group for System Security Engineering, and is on the Board of Directors for the INCOSE New Mexico chapter.

He was co-principal investigator of the 1991 industry-led 21st Century Manufacturing Enterprise Strategy project conducted at Lehigh University that identified Agility as a principle competitive issue. He has facilitated partnership formation strategies, funding, and program management for major consortia projects such as the AIMS Agile Manufacturing Pilot project funded by ARPA (Lockheed, Texas Instruments, Rocketdyne).

In 2002 he accepted a full time change management assignment as President of the ProMetal division of Extrude Hone Corporation, a company with MIT-licensed layered-manufacturing technology that prints three dimensional objects from metal powders. In 12 months he took this R&D-locked organization into commercial operation, selling two different highly-complex machines and services from two shops that provided art-to-part production.

In 1999 he accepted a 7/8-time start-up management assignment at Silterra, a new semiconductor foundry near Penang, Malaysia. Over 2-1/2 years he served as the initial CIO/CSO where he architected and program managed the design and implementation of a unique highly adaptable enterprise IT infrastructure, a unique eBusiness capability featuring active service management and customer relationship interaction, an integrated factory planner/scheduler featuring continuous operation, and an on-line corporate strategic-project portfolio management system. He also led a quarterly management/executive development program.

In 1994 he accepted a 3/4 time assignment at The Agility Forum at Lehigh University, as Director of Strategic Analysis and Chairman of the Strategic Analysis Working Group. Over a two year period he developed and managed the research agenda, organized and managed the industry participation strategy that carried out the agenda, chaired the Agile Operations and the Agile Business Practices focus groups, planned and managed the development of the Best Agile Practice benchmarking reference base, and designing and organized the Forum's acclaimed 1995 conference with over 100 technical papers presented on Agility.

In 1991 he accepted a DoD funded, NSF-channeled assignment at Lehigh University, as co-principle-investigator of the 21st Century Manufacturing Enterprise Strategy project, founding the concept of agile systems and enterprises.

In 1989, as president of Flexis Controls, a manufacturing software firm, Rick chaired the National Center for Manufacturing Science's Technology Review Board, and led the development of this consortia's first research agenda. In adjacent years he also organized and implemented the structure and operating policies for industry participation groups, and chaired the Computer Integrated Operations group.

Rick was instrumental in developing initial USA relationships with the Japanese-initiated Intelligent Manufacturing Systems (IMS) international consortia on manufacturing research. His monthly essays on competitive manufacturing and enterprise were published in the USA, China, Korea, and India. He has done business in Malaysia, China, Japan, Italy, France, Germany, and the UK.

Prior to 1991 he was a principal in a variety of corporate start-up and turnaround ventures. He has raised venture funding, led companies, experienced all executive positions, and founded and fixed companies in the computer, office products, systems integration, software, food processing, and food service industries.

Rick's experience base includes the automotive, aerospace/defense, semiconductor, computer, software, and metal-working industries. He holds a BSEE from Carnegie-Mellon University with a minor in economics. His publication list numbers in excess of 180 and is available upon request.

Career Positions

2017-2018 Researcher, SYSTEMS ENGINEERING RESEARCH CENTER, Washington, DC
2009- Adjunct Professor, STEVENS INSTITUTE OF TECHNOLOGY, Hoboken, New Jersey.
2006-2008 Industry Professor, STEVENS INSTITUTE OF TECHNOLOGY, Hoboken, New Jersey.
2005- Partner, KENNEN TECHNOLOGIES, Albuquerque, New Mexico, Co-Founder.
1991- CEO, PARADIGM SHIFT INTERNATIONAL, Questa, New Mexico, Founder.
2002-2003 Assignment--PROMETAL Division of Extrude Hone Corp, Irwin, PA, President (Full time interim position).
1999-2002 Assignment--SILTERRA, Kulim, Malaysia, Strategic Programs and Acting CIO (7/8 time contract position). 1994-1995: Assignment--AGILITY FORUM, Lehigh University, Director Strategic Analysis (3/4 time contract position). 1991-1991: Assignment--IACOCCA INSTITUTE, Lehigh U., co-PI of 21st Century Manufacturing Enterprise Strategy. 1989-1991 Tech Review Board Chair--NATIONAL CENTER FOR MANUFACTURING SCIENCES, Ann Arbor, MI.
1987-1991: CEO--FLEXIS CONTROLS (nee SAVOIR), Hayward, CA, President/CEO, and Chairman.
1982-1987: CEO--THE MARKETING FORUM, Oakland, CA, Founder.
1977-1981: VP--FRIDEN-ALCATEL, Hayward, CA, Director of Engineering, Director of Marketing.
1975-1985: CEO/Winemaker--MONTCLAIR WINERY, Oakland, CA, Founder.
1971-1977: VP--BALL COMPUTER PRODUCTS, Sunnyvale, CA, Director of Marketing.
1969-1971: Staff--BERKELEY COMPUTER CORPORATION, Berkeley, CA, Systems Developer, Mgr of Support.
1965-1969: Staff--CARNEGIE MELLON UNIVERSITY, Pittsburgh, PA, Computer Science, Systems Developer.
1961-1965: Staff--WESTINGHOUSE RESEARCH LABS, Churchill Boro, PA, Computer Science, Systems Developer.

Selected Professional Activities

- Theme Editor, INCOSE INSIGHT June 2018 Issue, Enabling and Practicing Systems Engineering Agility.
- Organizer/Program Director, 2017, Socorro Systems Summit, New Mexico Tech, Socorro New Mexico, October 6-7.
- Organizer/Program Director, 2016, Socorro Systems Summit, New Mexico Tech, Socorro New Mexico, Oct. 28-39.
- Plenary speaker, 2016, ISSS, Enabling and Facilitating Engineered Sustainability, U. of Colorado, Boulder, July.
- Theme Editor, INCOSE INSIGHT July 2016 issue, Agile Security.
- Keynote and Panelist, 2014, The Technion Gordon Center for Systems Engineering (Israel), Agile and Lean Systems Engineering: Complimentary and Contradictory relationships.
- Principle Investigator, Novel Detection Mechanisms for Advanced Persistent Threat, OSD/Army, 2013-2014.
- Theme Editor – INCOSE INSIGHT July 2013, The Buck Stops Here: Systems Engineering is Responsible for System Security.
- Contributing author, 2013. Three sections of IEEE Smart Grid Vision for Computing: 2030 and Beyond. Institute of Electrical and Electronics Engineers, April.
- Plenary presentation, 2012, Introduction to Self-Organizing Adaptive Systems, IEEE International Carnahan Conference on Security Technology (ICCST), Newton, MA, 15-18 Oct.
- Invited participant, 2012 workshop: Computational Cyber Security In Compromised Environments (C3E), Office of the Director of National Intelligence and NSA, West Point, 10-12Sep.
- Chairman, INCOSE working group on Agile Systems and Systems Engineering, 2012-current
- Invited participant – 2012 workshop: IEEE Computer Society Smart Grid Vision Project Cyber Security Workshop, U. of Illinois, Urbana, IL, June 21.
- Invited participant, 2011 workshop: Computational Cyber Security In Compromised Environments (C3E), Office of the Director of National Intelligence and NSA, Keystone, Colorado, 25-28Sep
- Theme Editor, INCOSE INSIGHT July 2012, Systems of the Third Kind: Distinctions, Principles and Examples.
- Invited participant – 2011 workshop: Rethinking Cybersecurity, Center for Risk, Management of Engineering Systems and the Institute for Information Infrastructure Protection (I3P), University of Virginia, 16-17Nov.
- Principal Investigator, Self Organizing Resilient Network Sensing, DHS S&T D10PC20039, 2010Oct-2011Apr.
- Theme Editor, INCOSE INSIGHT July 2011 issue, Systems of Systems and Self-Organizing Security.
- Keynote: Systems Engineers R Us-Oldest Profession in the World, AFRL La Luz Academy, Kirtland AFB, 2010Jul.
- Invited participant, 2010 workshop: New Approaches to Security Engineering, Systems Engineering Research Center (SERC), Washington D.C., 31Mar-1Apr.
- Theme Editor, INCOSE INSIGHT July 2009 issue, Interplay of Architecture, Security, and Systems Engineering
- Chairman, Award winning INCOSE working group on Systems Security Engineering, 2007-current
- Principal Investigator, Hardware Assisted Security Platform, DHS S&T NBCHC070016, 2007Apr-2009Jun.
- Principal Investigator, Secure Security Monitor, DHS S&T NBCHC060044, 2005Dec-2006Jun.
- Keynote, "Agile Enterprise Cornerstones: Knowledge, Values, Response Ability ", IFIP 8.6 Conference, May 2005
- Director, INCOSE Enchantment Chapter, Albuquerque, New Mexico. 2005-current
- Monthly Column "Agile and Otherwise" in Automotive Design & Production, GardnerHanzer, 1994-2001
- Keynote: "Business As Usual In Unusual Times", Northwest Manufacturing Expo, Portland, 6/99
- Keynote: "Knowthing Happens Until Somebody Learns Something", Knowledge Mgmt Conf, New York, 4/98
- Keynote: "Education in the Year 2020", CAM-I Educational Advisory Board, 8/97
- Keynote: "Business Practices in 2020", National Research Council, 3/97
- Keynote: "Higher Education Issues in the Agile Age", Univ of SW Louisiana, ISAM/ICAM Conference, 2/97
- Keynote: "Business Change Proficiency", Centre for Exploitation of Science and Technology, UK, 7/96

Rick Dove – Curriculum Vitae

- Adjunct Professor, Stevens Institute of Technology, Hoboken, NJ
- Partner, Kennen Technologies, Albuquerque, NM
- CEO, Paradigm Shift International, Questa, New Mexico
- Fellow, International Council on Systems Engineering (INCOSE)
575-586-1536 (tel), -2430 (fax), rick.dove@stevens.edu, dove@parshift.com



Education

B.S. Electrical Engineering, 6/69, minor in Economics, Carnegie Mellon Univ., Pittsburgh, PA

Career Activities

2017 – present: Researcher, SYSTEMS ENGINEERING RESEARCH CENTER, Washington DC, RT168 project: Transforming Systems Engineering Through Model-Centric Engineering. Responsible for Use Case 11: Assess AVCE (Armament Virtual Collaboratory Environment) iMBE-E (Integrated Model Based Engineering Environment).

2006 – present: Industry Professor 2006-2008, Adjunct Professor 2009+, STEVENS INSTITUTE OF TECHNOLOGY, Hoboken, New Jersey. Rick developed and teaches graduate courses in the engineering and design of agile systems for the School of Systems and Enterprises. Emphasis is on architecture and design of agile systems, systems of systems, and enterprise systems – particularly resilient response, innovative response, agile security, system interoperability, and self organization. The School gave him the 2013 Navigator Award for “leading the way for students in systems engineering.”

2005 – present: INCOSE (International Council on Systems Engineering). Served as 2015 and 2018 President of the New Mexico Chapter, and as Chapter Board Director since 2005. Chair of the INCOSE Agile Systems and Systems Engineering working group since 2012, and chair of the award winning Systems Security Engineering working group since 2007. Rick led the seminal effort that resulted in INCOSE recognition of Systems Engineering responsibility for the security of systems. Member since 2001, INCOSE Fellow in 2014, INCOSE Outstanding Service Award in 2018.

2005 – present: Partner, KENNEN TECHNOLOGIES, LLC, Albuquerque, NM. This company licenses patented IP for a breakthrough VLSI massively-parallel pattern-recognition processor – removing cost/time/accuracy tradeoffs in complex pattern recognition applications. Rick was PI for the two DHS SBIR contracts that supported IP development and prototyping through initial production licensing.

1991 – present: CEO--PARADIGM SHIFT INTERNATIONAL, Questa, NM. An agile system research, development, and program management firm engaged with new security strategies and technologies, application development for new massive parallel pattern recognition technology, and agile enterprise-systems of all kinds. PSI now develops security and other pattern recognition applications based on the Kennen IP, with Rick as PI for DHS and then DoD SBIR contracts for large scale immune-system-like anomaly detection and cortical-like hierarchical sense-making for zero-day security attacks.

Rick is author of Value Propositioning - Perception and Misperception in Decision Making, Icen Books, 2005; author of Response Ability: The Language, Structure, and Culture of the Agile Enterprise, Wiley, 2001; and co-author of 21st Century Manufacturing Enterprise, Diane Pub Co, 1991. He created the Change Proficiency Maturity Model for analyzing corporate adaptability, Ten Principles of Highly Adaptable Systems for designing agile systems, the Response Ability Analysis process for defining agile system requirements, and the Agile Enterprise Reference Model.

He was co-PI on the 1991 OSD/NAVY funded 21st Century Manufacturing Enterprise Strategy project conducted at Lehigh University that identified Agility as a principle competitive issue. He was subsequently Director of Strategy and Research at the DARPA/NSF funded Agility Forum, leading the agenda and engagement of over a thousand people and 250 organizations in the investigation and development of agile system concepts.

2002 – 2003: President (Interim Exec Assignment)--PROMETAL DIVISION EXTRUDE HONE CORPORATION, Irwin, Pennsylvania, President – ProMetal provides advanced rapid production equipment and production services with MIT-developed technology that prints a three dimensional object one layer at a time from proprietary formulations of metal and ceramic powders and binders. Change management was the assignment. In 12 months he took this R&D-locked organization into commercial operation and production of both highly-complex machines and art-to-part production services: staffed engineering management, a sales department, and a service department; established operating procedures, financial reporting, and business processes for two operational part-production shops, a machine production capability, and development engineering; completed process stabilization and two commercial machine development projects; established a unique and leadership value proposition; identified and opened negotiations with a dominant (confidential) market supplier for 1000+ machines over a 5-year period; and took the first commercial machine order.

1999 – 2002: CIO/CSO (Interim Exec Assignment)--SILTERRA, a semiconductor foundry start-up near Penang, Malaysia. Developed strategic programs and served as acting CIO and CISO. Program Manager and architect/strategist for design and implementation of: (1) a highly adaptable enterprise IT infrastructure integrating ERP applications from Oracle, PeopleSoft, Adexa, and the BEA enterprise bus, (2) a unique eBusiness capability providing active service management and customer relationship interaction built on Oracle 8i, an Epicentric portal, and MicroStrategy Web Server, (3) an integrated Adexa factory planner/scheduler uniquely featuring continuous operation, and (4) an on-line corporate strategic-project portfolio management system. Also provided strategy planning and development for a unique rolling responsibility service practice, an IT process-management organizational structure, and a push-the-state-of-the-art IT

security program; and planned and led quarterly management/executive meetings, learning programs, and corporate cultural development.

1994 – 1995: Director Strategic Analysis and Chairman Strategic Analysis Working Group (Assignment)--AGILITY FORUM, Lehigh University, Bethlehem, PA. Developed the research agenda and analytical framework for the Agility Forum; organized the activities and structures that carry out the agenda, developed “self-sufficiency” business plan, chaired the Agile Operations Focus Group and the Agile Business Practices Focus Group, defined industry-participation Focus Group mechanisms, led development of Best Agile Practice benchmarking reference base, and designed and organized the Forum’s acclaimed 1995 conference with over 100 technical papers presented on Agility.

1991 – 1991: Co-Principal Investigator (Assignment)--IACocca INSTITUTE, Lehigh University, Bethlehem, PA, co-principal investigator of 21st Century Manufacturing Enterprise Strategy. Consulted to the DoD on formative nature and location for this strategic program, then partnered with the Director of the Iacocca institute as co-principal investigator, recruited blue-ribbon industry workshop participants, guided the conclusion toward agility as a focus, and authored various sections of final report.

1988 – 1991: Volunteer--NATIONAL CENTER FOR MANUFACTURING SCIENCES, Ann Arbor, MI, member and chairman ('89) of the Technology Review Board and Computer Integrated Operations group ('89-91). Developed and implemented new organizational structure and operating policies for industry participation groups, led the development of first research agenda as Chair of the Technology Review Board. Initiated relationship with international IMS program.

1987 – 1991: Chairman/CEO--FLEXIS CONTROLS (nee SAVOIR), Hayward, CA., President, CEO, and then Chairman of the Board. This company was founded in 1984 to provide an integrated systems engineering environment for the specification, design, development, integration, and maintenance of computer-integrated manufacturing control systems. Dove secured the first two rounds of venture financing for this company and secured a patent on the firm's fundamental software technology.

1982 – 1997: Chairman/CEO--THE MARKETING FORUM, Oakland, California, Founder and President. This management consulting firm specialized in strategic planning and implementation of market-entry and business-development programs for technology-focused firms. Clients that served the manufacturing industries included systems integrators, controls manufacturers, material handling firms, CAD/CAM workstation companies, network systems companies, a super-computer company, and a cell-controller development firm.

1975 – 1985: Chairman/CEO--MONTCLAIR WINERY, Founder and winemaker. Founded and built this award-winning 2,000 case/year “boutique” winery in Oakland, California. Designed specialty processing equipment for small-volume-winery production, including automated 60/minute bottle labeler, raw material transport and handling systems, pressurized wine transfer systems, and cold fermentation facility. This winery made Zinfandel, Cabernet Sauvignon, and French Columbard from grapes grown in Sonoma County, California. Liquidated winery in 1985.

1977 – 1981: Vice President--FRIDEN-ALCATEL, Hayward, California; Director of Engineering and Development, and Director of Marketing. Dove was a member of the turn-around team that bought this organization from Singer Corporation and 2.5 years later sold it to CIT Alcatel. As Director of Engineering & Development he was initially responsible for developing the specifications of the company's electronic products and building the engineering and development departments. As Vice President of Marketing and Sales, he subsequently developed the product strategy and led the company's market introduction of the world's first electronic postage meter, and introduced a family of electronic postal and shipping computing scales.

1971 – 1977: Vice President--BALL COMPUTER PRODUCTS, a division of Ball Corporation, Sunnyvale, California. Director of Marketing and Sales. Originally Decision, Inc, sold to Ball Corporation in 1974. Assimilated two acquisitions. Company was engaged in OEM and end-user sales of disk drives, mini-computer systems, optical character recognition and mark-sense equipment, and remittance processing systems.

1969 – 1971: Technical Staff--BERKELEY COMPUTER CORPORATION, Berkeley, California, System Developer/Analyst and Manager of Systems Support. Involved early after formation of company. Responsible for design and implementation of compilers and portions of the operating system, and managed technical writing. Company pioneered machine architectures for large scale multi-tasking and time-sharing, and built the BCC-500, an early Internet resource at the University of Hawaii.

1965 – 1969: Technical Staff--CARNEGIE MELLON UNIVERSITY, Pittsburgh, Pennsylvania, Computer Science Department, System Developer/Analyst. This position was full-time between semesters and half-time during semesters, and was spent principally developing a compiler-compiler called CABAL and a system for developing artificial intelligence knowledge networks. Published four papers as an undergraduate.

1961 – 1965: Technical Staff--WESTINGHOUSE RESEARCH LABORATORIES, Pittsburgh, Pennsylvania, Computer Science Department, System Developer/Analyst. Developed a proprietary event-based simulation language and modeled the ingot processing area at the J&L Steel Rolling Mills. Developed testing programs for Westinghouse's Prodac line of process-control computers. Developed improved method for determining optimum valve cracking points in a power generation facility.

Inventions

- Electronic Postage Meter, Patent #4,484,307, 11/20/84, with Quatse and Dodge.
- Improved Valve Cracking Algorithm for Economic Power Generation, proprietary to Westinghouse Research Laboratories, 1965.

Selected Webinars (downloads at <http://www.parshift.com/publications.htm>)

- Dove, Rick. 2018. Agile 201: Agile SE Processes Problem Space Derived Solution Requirements
- Dove, Rick. 2017. Agile 106: Agile System/Process Risk Management & Mitigation. Webinar Series, International Council on Systems Engineering. September.
- Dove, Rick. 2016. Agile 105: Agile System/Process Operational Awareness. Webinar Series, International Council on Systems Engineering. September.
- Dove, Rick. 2015. Agile 104: Agile System/Process Engagement Quality. Webinar Series, International Council on Systems Engineering. September.
- Dove, Rick. 2014. Agile 103: Agile System/Process Design Principles. Webinar Series, International Council on Systems Engineering. September.
- Dove, Rick. 2013. Agile 102: Agile System/Process Design Requirements. Webinar Series, International Council on Systems Engineering. September.
- Dove, Rick. 2012. Agile 101: Agile System/Process Architecture Pattern. Webinar Series, International Council on Systems Engineering. September.

Publications and Presentations (downloads at <http://www.parshift.com/publications.htm>)

- Dove, Rick. 2018. Agile Systems Engineering. Keynote presentation, San Diego INCOSE Chapter Mini Conference, San Diego, CA, December 1..
- Dove, Rick, Bill Schindel, Ken Garlington. 2018. Case Study: Agile Systems Engineering at Lockheed Martin Aeronautics Integrated Fighter Group. INCOSE International Symposium IS2018, Washington, DC, USA, July 7-12.
- Dove, Rick. 2018. Enabling and Practicing Systems Engineering Agility – Prelude. *Insight 21* (2): 8-12, International Council on Systems Engineering, June.
- Dove, Rick. 2018. Synergy: Agile Systems Engineering and Product Line Engineering at Rockwell Collins. *Insight 21* (2): 43-46, International Council on Systems Engineering, June.
- Dove, Rick. 2017. On Defining Agile Systems Engineering. *Insight 20* (3): 75-76, International Council on Systems Engineering, September.
- Dove, Rick, Bill Schindel. 2017. Case Study: Agile SE Process for Centralized SoS Sustainment at Northrop Grumman. INCOSE International Symposium IS2017, Adelaide, AU, July 15-20.
- Dove, Rick. 2017. CASE Exchange Panel Position Statement: Incremental/Agile Methods—Fit for Demands of Complex Aerospace Systems? AIAA Aviation Forum, Denver, CO, Jun 6.
- Dove, Rick, Bill Schindel, Will Hartney. 2017. Case Study: Agile Hardware/Firmware/Software Product Line Engineering at Rockwell Collins. IEEE SysCon 2017, Montreal, Quebec, CA, April 24-27.
- Dove, Rick. 2017. Agility in Systems Engineering – Findings from Recent Studies. Unpublished working paper. April 15.
- Dove, Rick, Bill Schindel. 2017. Case Study: Transition to Scaled-Agile Systems Engineering at Lockheed Martin's Integrated Fighter Group. Unpublished working paper. March 6.
- Dove, Rick. Systems Summit ConOps for Chapter Use – By Example. INCOSE IW17 Joint Workshop by Agile Systems & SE and Systems Science Working Groups, Torrance, CA, 31 Jan 31.
- Dove, Rick. 2016. Enabling and Facilitating Engineered Sustainability. Plenary presentation at ISSS 2016. International Society for the Systems Sciences. University of Colorado, Boulder, CO, July 23-30.
- Dove, Rick, Bill Schindel, Chris Scrapper. 2016. Agile Systems Engineering Process Features Collective Culture, Consciousness, and Conscience at SSC Pacific Unmanned Systems Group. INCOSE International Symposium IS2016, Edinburgh, Scotland, UK, July 18-21.
- Schindel, Bill and Rick Dove. 2016. Introduction to the Agile Systems Engineering Life Cycle MBSE Pattern. INCOSE International Symposium IS2016, Edinburgh, Scotland, UK, July 18-21.
- Willett, Keith, Rick Dove, Robert Cloutier, Mark Blackburn. 2016. On System Dynamics Modeling of Human- Intensive Workflow Improvement – Case Study in Cybersecurity Adaptive Knowledge Encoding. INCOSE International Symposium IS2016, Edinburgh, Scotland, UK, July 18-21.
- Leroux, Chris and Rick Dove. 2016. Merit of Adaptable Pairing as an Agile Systems Engineering Knowledge Management Practice. INCOSE International Symposium IS2016, Edinburgh, Scotland, UK, July 18-21.
- Dove, Rick. 2016. Agile System-Security: Sustainable Systems Evolve With Their Environment. *Insight 19* (2):8-12. International Council on Systems Engineering, July.
- Dove, Rick. 2016. Presentation: Agility as a Win-Win Game, and the Rules of Play on Any Board. Conference on Agile Systems in Healthcare. International Council on Systems Engineering. Schaumburg, Illinois, May 23-24.
- Dove, Rick. 2016. Presentation: Discovering Agile SE Process Fundamentals at INCOSE. INCOSE Southern Arizona Chapter. University of Arizona, Tucson, AZ, February 23.
- Dove, Rick. 2015. Needed: Practitioner Attention to Systems Engineering Delivery of Sustainable Value. *Insight 18* (2): 59-62. International Council on Systems Engineering, 1-August.

- Willett, Keith, Rick Dove, Mark Blackburn. 2015, Adaptive Knowledge Encoding for Agile Cybersecurity Operations. International Council on Systems Engineering IS15 Conference, Seattle, WA, 13-16-July.
- Mailloux, Logan, Rick Dove, Cheryl Garrison, Ryan Biondo. 2015. Guidance for Working Group Maintenance of the Systems Engineering Body of Knowledge (SEBoK) with Systems Security Engineering Example. International Council on Systems Engineering IS15 Conference, Seattle, WA, 13-16-July.
- Dove, Rick and Norbert Hoeller. 2015 Interview Rick Dove. Zygote Quarterly, Vol. 2, 1-July.
- Dove, Rick, 2014, Agile Systems-Engineering AND Agile Systems-Engineering, Insight 17 (2). International Council on Systems Engineering, July.
- Dove, Rick and Ralph LaBarge. 2014. Agile Systems Engineering – Part 1. International Council on Systems Engineering IS14 Conference, Los Angeles, CA, 30-Jun-03Jul.
- Dove, Rick and Ralph LaBarge. 2014. Agile Systems Engineering – Part 2. International Council on Systems Engineering IS14 Conference, Los Angeles, CA, 30-Jun-03Jul.
- Dove, Rick and Garry Turkington. 2014. Chapter 12: Graceful Migration of Agile Systems Across Next-Generation Life Cycle Boundaries. pps 199-213. Sushil and E.A. Stohr (eds.), The Flexible Enterprise, Flexible Systems Management, Springer India.
- Dove, Rick, 2014, Agile and Lean Systems Engineering: Complimentary and Contradictory Relationships, The Technion Gordon Center for Systems Engineering (Israel), Haifa, Israel, 6Jan.
- Dove, Rick, Paul Popick, and Beth Wilson, 2013, The Buck Stops Here: Systems Engineering is Responsible for System Security, Insight 16 (2). International Council on Systems Engineering, July.
- Dove, Rick, 2013, Sustainable Agile Security Enabled by Systems Engineering Architecture, Insight 16 (2). International Council on Systems Engineering, July.
- Papke, Barry and Rick Dove, 2013, Combating Uncertainty in the Work Flow of Systems Engineering Projects, INCOSE International Symposium, Philadelphia, PA, June 24-27. Best paper award.
- Anderson, Steven and Rick Dove, 2013, Aircraft Agile Integration-Design for Quick reaction Capability Programs, INCOSE International Symposium, Philadelphia, PA, June 24-27.
- Dove, Rick, 2013, Section 4.6.3 Technological Concept 18: Hierarchical sense making. IEEE Smart Grid Vision for Computing: 2030 and Beyond. IEEE Standards Association, Institute of Electrical and Electronics Engineers, April. pp. 96-98.
- Dove, Rick, 2013, Section 4.6.4 Technological Concept 19: Massive parallel pattern detection. IEEE Smart Grid Vision for Computing: 2030 and Beyond. IEEE Standards Association, Institute of Electrical and Electronics Engineers, April. pp. 98-99.
- Rick Dove, 2013, Section 4.6.5 Technological Concept 20: Patterns for implementing agile self-organizing security. IEEE Smart Grid Vision for Computing: 2030 and Beyond. IEEE Standards Association, Institute of Electrical and Electronics Engineers, April. pp. 100-101.
- Dove, Rick, 2012, Introduction to Self-Organizing, Adaptive Systems, Plenary presentation at IEEE International Carnahan Conference on Security Technology (ICCST), Newton, MA, 15-18 Oct.
- Streisand, David and Rick Dove, 2012, Basic Genetic-Algorithm-Neural-Network (GANN) Pattern with a Self-Organizing Security Example, IEEE International Carnahan Conference on Security Technology (ICCST), Newton, MA, USA, 15-18 Oct.
- Messenger, Rich and Rick Dove, 2012, Basic Genetic Algorithm Pattern for Use In Self-Organizing Agile Security, IEEE International Carnahan Conference on Security Technology (ICCST), Newton, MA, USA, 15-18 Oct.
- Hamar, Jeff and Rick Dove, 2012, A Quorum Sensing Pattern for Multi-Agent Self-Organizing Security Systems, IEEE International Carnahan Conference on Security Technology (ICCST), Newton, MA, USA, 15-18 Oct.
- Jeff Hamar and Rick Dove, 2012, Quorum Sensing in Multi-Agent Systems, Insight 15 (2): 36-38. International Council on Systems Engineering, July.
- Dove, Rick, 2012, Righteousness and Conscience as a Path to Socially Acceptable Autonomous Behavior, Insight 15 (2): 32-34. International Council on Systems Engineering, July.
- Dove, Rick, Jack Ring and Thomas Tenorio, 2012, Systems of the Third Kind: Distinctions, Principles, and Examples, Insight 15 (2):6-8. International Council on Systems Engineering, July.
- Oehmen, Josef; Oppenheim, Bohdan W.; Secor, Deborah; Norman, Eric; Rebentisch, Eric; Sopko, Joseph A.; Steuber, Marc; Dove, Rick; Moghaddam, Kambiz; McNeal, Steve; Bowie, Mark; Ben-Daya, Mohamed; Altman, Wolf; Driessnack, John. 2012. The Guide to Lean Enablers for Managing Engineering Programs. Ed: Oehmen, Joseph. Joint MIT-PMI-INCOSE Community of Practice on Lean in Program Management. May. Shingo Prize winner. <http://dspace.mit.edu/handle/1721.1/70495>.
- Dove, Rick, 2011, Self-Organizing Resilient Network Sensing (SornS) with Very Large Scale Anomaly Detection, IEEE International Conference on Technologies for Homeland Security, Waltham, MA, Nov. 15-17.
- Dove, Rick. 2011. Toward a Systemic Will to Live - Patterns of Self-Organizing Security. Current Webinar, Paradigm Shift International. www.parshift.com/s/TowardsSystemicWillToLive.pdf.
- Dove, Rick and Jennifer Bayuk, Systems of Systems and Self-Organizing Security, Insight 14 (2). International Council on Systems Engineering, July 2011.
- Lugosky, Jena and Rick Dove, 2011. Understanding Stigmergy as a Pattern in Self-Organizing Adversarial Systems of

- Systems, Insight 14 (2). International Council on Systems Engineering, July 2011.
- Nichols, Craig and Rick Dove, Architectural Patterns for Self-Organizing Systems-of-Systems, Insight 14 (2). International Council on Systems Engineering, July .
 - Lugosky, Jena and Rick Dove.2011. Identifying Agile Security Patterns in Adversarial Stigmergic Systems. In proceedings INCOSE International Symposium , Denver, CO, June 20-22. www.parshift.com/s/110620AdversarialStigmergyPatterns.pdf.
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