



Preliminary Agenda

Saturday, June 6, 2020

7:00 AM – 8:00 AM **BREAKFAST** (Ticket REQUIRED; For REGISTERED Pre-Summit Workshop Attendees ONLY)

8:00 AM – 5:00 PM **FULL DAY PRE-SUMMIT COURSES**

Beyond FAST - Applying 21st Century Function Models, Tools and Techniques

Bruce Lenzer, CVS-Life, FSAVE, CQM/OE, CLA, CAQMSA (Synergy Value Solutions, LLC)

PDU: 7.5 hours

Core Competencies:

- Team Facilitation
- Function Analysis

This class/seminar covers 21st century function modeling tools and techniques to optimize and value improve products, projects, and processes. Successful Improvement Teams' delivery has become more complex and demanding in a volatile environment of ever tighter margins that involve a spectra of risks to consider. A variety of risks which matter can be identified and represented in the context of one or more of these function models.

This Full day class including example exercises, is designed for all practitioners of value engineering, optimization, quality, as well as process and project improvement desiring to learn more regarding different types and styles of Function Modeling and innovative applications of Function Analysis System Technique (FAST). Participants will be introduced to intermediate and advanced fundamentals of function science, interfacing business processes, organizations, and optimizing project delivery with FAST models. In addition, contemporary tools will be shared in building Process Cost Models.

Innovations to model cost will be shared and explained, interfacing labor and materials cost to simulate as-is and to-be changes surrounding a proposed improvement. Interfacing these components of cost to function broadens the analytical capability for value, quality, process and project improvement practitioners in government and industry.

The class will also explain and conduct practice exercises addressing Organization Function FAST associated with Project Planning, Schedule Optimization and Change Management. Organizational FAST is a pragmatic application of the FAST tool which provides characterization and visualization so Project Teams and Management can agree on the way forward and resources required to achieve organizational success. Organizational FAST also provides a simple, yet elegant, method to drive down the detail of the Organizational Functions to be achieved in the System.

It exhibits the interfaces and dependencies with clarity as well as differentiates the “As we do it state” from the “As we should do it state.” In addition, it supports assignment of Roles & Accountabilities. A tangible graphic representation helps prove the understandings developed in the Teams’ System Thinking work does exist, and which will be referenced in a consistent and repeatable business process. The graphic representation also serves as a reference point for discussions with new team members, other internal Organizations, Clients, & Contractors. These Organizational Maps may be “dimensioned” in a variety of ways to leverage additional enhancements adding to the understanding of value between the project teams, customers and clients.

Effective Facilitation

John Sloggy, PE, CVS (Value Based Design)

PDUs: 7.5 hours

Core Competency: Team Facilitation

This workshop is a mixture of lecture and team practice exercises utilizing the Pocket Guide: Facilitation as a Glance by Ingrid Bens as a source of workshop material (provided). We cover the following facilitation core competencies during the workshop:

- Understanding Facilitation
- Effective Questioning
- Facilitation Stages

VE in Combination with Mediation: Supertool for Multiparty Plan Making

Dorine Cleton, LLM (CLETON&COM)

PDUs: 7.5 hours

Core Competency: Pre-Workshop Stage

After presenting and winning the paper of the Year award in Austin, Texas (2018) for “VE in combination with Mediation as Super tool for Multiparty Plan Making” many people inquired: How does it work exactly? How do I get the information, joined criteria? How do you get from random suggestions about the area to VE, FAST and a coherent process that ends with doable alternatives? In Portland (2019) I conducted a half day workshop to explain how the method works and letting the attendees experience several steps themselves. The workshop received positive feedback, but there was one comment: please make it into a full day workshop. This proposal is for that full day workshop. It will allow more interaction and more changes for the attendees to really experience what the method is all about.

It will provide an introduction to mediation, will give an inside in the facilitation skills needed and simple methods that have proven to work and will give an overall view about the process of combining mediation (PPNP) and Value Engineering. The workshop will look into the difference in this process in the information phase (getting information from citizens, the city and the developer), criteria, FAST, team), the joined effort (specialist, citizens and stakeholders), as well as the presentation to all parties, citizen, city and development company. It will also provide information about how the city, board as well as city council, civil servants, specialist can and have to be involved. Lessons learned will be shared. Special attention is given to the Pre-workshop Stage.

ABDs of Advanced Value Engineering – Day 1

Frank Vicidomina, PE, CVS-Life

PDUs: 7.5 hours / 15 hours total

Core Competencies:

- Value Methodology
- Transform Information
- Team Facilitation

- Function Analysis
- Cost Analysis
- Pre-Workshop Stage
- Workshop Stage (Six-Phase VM Job Plan)
- Post-Workshop Stage
- Value Program

The Value Engineering (VE) practitioner's goal should be to best take care of his CUSTOMER via finding 'D' – the 'diamond in the rough' better solution for a given project or process. This can be accomplished by optimal execution of the VE Job Plan. To that end the objective of this course/book is to help improve the VE professional's skills via the sharing of the author's experience and input from course participants. This course addresses functionality and 100 issues associated with the Pre-Workshop, six-phase VE Job Plan and Post-Workshop activities as well as various select 'odds and ends'. The book presents the subject matter training but is also good as an independent, stand-alone learning document.

If you're looking for the latest gee-wiz technologies, etc., there will be some of that. The primary focus of this course, however, is on reiterating what VE should be, identifying issues and offering advice on how to improve preparing for, conducting and documenting VE workshops. The book/course is aimed at the experienced VE practitioner but should also be helpful for those new to the profession. VE program managers may also benefit from this course via gaining insight to what their VE practitioners should be doing for them.

12:00 PM – 1:00 PM **LUNCH (Ticket REQUIRED; For REGISTERED Pre-Summit Workshop Attendees ONLY)**

1:00 PM – 5:00 PM **HALF-DAY PRE-SUMMIT COURSE**

Pump Up Your Presentations

Douglas Carter, BSc, B.Ed, OCT (Presentations Etc. Inc.)

PDU: 3.5 hours

Core Competency: Team Facilitation

"A great presentation gives smart ideas an advantage." Nancy Duarte

The Value Methodology is driven by effective communication because in order to increase your profits, improve performance and enhance customer satisfaction, you must be able to communicate effectively. All too often ideas are not accepted, and opportunities are lost due to the inability of the presenter to deliver their ideas in an effective, succinct and compelling way. The ability to present an idea is as important as the idea itself.

An essential aspect of the Value Process is the ability to transfer knowledge and to communicate effectively, and it is this area that will be our focus. In this informative, interactive and enjoyable workshop, participants will learn how to organize, craft and present their ideas in a more innovative, memorable and persuasive manner. Don't let your inability to present effectively hold you back!

"Add Value. Enhance Ideas." In this session you will do both; you will learn how to add value by enhancing and effectively communicating your ideas.

Sunday, June 7, 2020

7:00 AM – 8:00 AM **BREAKFAST (Ticket REQUIRED; For REGISTERED Pre-Summit Workshop Attendees ONLY)**

8:00 AM – 5:00 PM **FULL DAY PRE-SUMMIT COURSES**

ABDs of Advanced Value Engineering – Day 2

Frank Vicidomina, PE, CVS-Life

PDU: 7.5 hours / 15 hours total

Creative Techniques and Facilitation Training

Amin Terouhid, PhD, PE, VMA, PMP, PSP, DRMP (Adroit Consultants, LLC)

PDU: 7.5 hours

Core Competency:

- Team Facilitation
- Workshop Stage (Six-Phase VM Job Plan)

This training explores tools and techniques for concept generation and facilitation in group settings. The training focuses on 1) creative techniques for group cohesion and lateral thinking to evolve a team into a highly functional creative mindset; and 2) idea exploration or development processes to transform a particular idea into a refined and articulated concept, and 3) facilitation techniques to ensure the team performs well, team members collaborate effectively, and perform to reach a common objective in idea generation and assessment.

The Many Uses of Functional Performance Specification (Lucie Parrot, CVS-life, FSAVE – Martin Parrot Inc.)

PDU: 7.5 hours

Core Competency:

- Value Methodology
- Transform Information
- Function Analysis
- Cost Analysis
- Workshop Stage (Six-Phase VM Job Plan)

Function analysis is the basic tool to improve the competitiveness of the products and services designed and built by an enterprise to fulfill needs that are not yet satisfied or not well satisfied. Teams of experts try to capture those needs and then design a product or service that will cover all those needs. Elicitation of the needs by the eventual users is not easy and understanding them well by those who will design the response is not easy either. Function analysis is a good method to facilitate this. The present paper will underline the various tools to use to do so in a Functional Performance Specification and it will explain the various uses of this document, including how to use them in FMEA (Failure Mode and Effect Analysis), in procurement of solutions and for the selection of a best option among many possible ones.

The topics covered in this class will address the Core Competencies regarding the Value Methodology in general, as well as Transform Information, Function Analysis and Cost analysis.

Quantitative Risk Analysis & Risk Management Techniques for Value Practitioners

Greg Brink, CVS, PMP, PMI-RMP, PMI-PBA, CCEA, ENV SP (Value Management Strategies, Inc.)

PDU: 7.5 hours

Core Competencies:

- Value Methodology
- Cost Analysis

In a world of uncertainties that exists every day, knowing the effective means and measures to identify, evaluate, respond, and ultimately manage risks helps to demonstrate a whole new basis of adding Value. The addition of adding Quantitative Risk Analysis and Risk Management into the VM or performing such studies on a standalone basis requires specific knowledge. Recognizing this need, this course specifically addresses the latest techniques and tools being used in broad-based practice that can add another effective tool and techniques into any VM facilitator's repertoire.

12:00 PM – 1:00 PM	LUNCH (Ticket REQUIRED; For REGISTERED Pre-Summit Workshop Attendees ONLY)	
5:00 PM – 6:00 PM	SAVE INTERNATIONAL BUSINESS MEETING	Grand Ballroom
5:00 PM – 6:00 PM	PRESIDENT'S RECEPTION	Fleur de Lis Courtyard

Monday, June 8, 2020

7:00 AM – 8:00 AM	BREAKFAST	Grand Ballroom Foyer
7:00 AM – 8:00 AM	COLLEGE OF FELLOWS BREAKFAST PDUs: 1.0 hours	Location TBA
8:00 AM – 8:30 AM	WELCOME Renee Hoekstra, CVS SAVE International President	Grand Ballroom
8:30 AM – 9:30 AM	KEYNOTE ADDRESS Barry Kern, CEO and President, Kern Studios	Grand Ballroom
9:30 AM – 10:00 AM	NETWORKING BREAK	Grand Ballroom Foyer
10:00 AM – 12:00 PM	CONCURRENT 1A – TEAM FACILITATION Professional Develop Session: <i>Unleashing Team Potential: An Introduction to Liberating Structures</i> Ashley Hauser, MSOD, VMA and Giuseppe Nespoli, MSOD, VMA (Value Management Strategies) PDUs: 2.0 hours Core Competency: Team Facilitation Liberating Structures are simple frameworks that unleash potential, promote engagement, and assist in delivering exceptional team results. At their core, Liberating Structures are designed to increase collaboration and drive innovative outcomes. During this session, Ashley Hauser and Giuseppe Nespoli will introduce Liberating Structures as a framework and discuss how Liberating Structures may be integrated with various stages of the VM job plan. Interactive by design, participants will have the opportunity to experience the power of Liberating Structures first-hand and consequently, gain greater insight into how Liberating Structures may enhance their own work.	Evangeline Suite
10:00 AM – 12:00 PM	CONCURRENT 1B – POST WORKSHOP	Regal Suite
10:00 AM	<i>Expanding the Implementation Phase to Include Field Verification Assessments of Reported Acceptance of VE Study Alternatives</i> (Mark Watson – HDR) PDUs – 05. Hours / Core Competency: Post Workshop Stage	
10:30 AM	<i>Obstacles to the Implementation of Value Engineering in German Construction Projects</i> (Natalia Bienkowski – Technical University of Dresden) PDUs – 05. Hours / Core Competency: Value Methodology	
11:00 AM	<i>How to Improve Your Presentation</i> (Kyle Schafersman – Strategic Value Solutions, Inc.) PDUs – 05. Hours / Core Competency: Workshop Stage (Six-Phase VM Job Plan)	

11:30 AM *Creating Competitive Patents/IP Competency with Multi- FAST(R)* (Won Jin Sunu – Society of Korean Value Methodology)

PDU – 05. Hours / Core Competency: Post-Workshop Stage

10:00 AM – 12:00 PM **CONCURRENT 1C – TRANSPORTATION TRACK (COST ANALYSIS)** Fleur de Lis Suite
10:00 AM *Value Engineering with Integrated Risk Management for Transportation Projects* (Mark Gabel, MSCE, PE, CVS – Washington State Department of Transportation)

PDU – 05. Hours / Core Competency: Function Analysis

An examination of the complementary nature of Value Engineering and Cost Risk Estimating Management. This paper draws from a WTC paper and provides updates from the recently completed Alaskan Way Viaduct replacement project in Seattle, WA. The Washington State Department of Transportation has a well-established Value Engineering program and Cost Risk Estimating Management program. WSDOT's Cost Estimate Validation Process continues to grow and improve and serves as an example and template for other owner agencies around the country and internationally. Value Engineering and CEVP were both applied to the Alaskan Way Viaduct replacement project. The preferred alternative, now complete, constructed a bored tunnel, to replace an existing elevated viaduct that had been damaged in an earthquake. At the time the project was the largest TBM driven soft-ground tunnel and now provides for 4 lanes of traffic on State Route 99 (2 NB lanes and 2 SB lanes). Project Management was aided through developing and communicating a clear, quantified understanding of the project with a strategy for delivery; definition and management of potential threat risks and opportunities. Value Engineering and community engagement are addressed.

10:30 AM *Risk Management and Allocation in Design-Build for Transportation Projects* (Mark Gabel, MSCE, PE, CVS – Washington State Department of Transportation and Conrad Felice)

PDU – 05. Hours / Core Competency: Function Analysis

The ever-increasing need to fully understand and communicate project information to contract parties (owner and design-builder) as well as diverse audiences and communities continues to be a challenge. In addition, design teams, working with multiple and varied partners and internal specialists, need to be able to quickly grasp the nature of a project, its context, risk and work activities. Project risk management methods are fairly well established and continue to evolve. Through the project design and development process there can be overwhelming amounts of data for large projects, which can be cumbersome and confusing to interpret. The need for identifying risk ownership is heightened for the design-build delivery method. There must be an agreement by all parties as to who owns each risk, typically classified as: owner risk, design-builder risk, or shared risk.

Value Engineering offers a natural method for cutting through the chaos and decision angst by identifying functions and responding to issues of greatest import. Value Engineering, when combined with risk management, produces a prominent benefit of identifying risk owners. Value Engineering is useful during pre-procurement and offers opportunities to improve the Request for Qualifications and Request for Proposal processes.

11:00 AM *Risk Analysis Details and Options for Use in Establishing Contingencies* (Michael Smith, Ovidiu Cretu, PhD, PE – HNTB Corporation, David Dye, Grace Olaleye)

PDU – 05. Hours / Core Competency: Function Analysis

Use of Risk Based Estimating to inform decisions on contingencies.

11:30 AM *Base Uncertainty in Cost Estimating and the Implications in Value Engineering* (Ovidiu Cretu, PhD, PE – HNTB Corporation and Mark Gabel, MSCE, PE, CVS – Washington State Department of Transportation)

PDU – 05. Hours / Core Competency: Function Analysis

Inaccurate estimating has dogged the transportation industry for years. In the past decade or so many state department of transportation agencies have embraced risk based estimating and more are examining this tool. The fact that estimates are more correctly expressed as a range rather than a single number is aided by a full understanding of risk and uncertainty. Value Engineering practitioners can benefit from understanding how uncertainty in cost estimates in particular can be captured, expressed and considered. Even if no risks are present there is uncertainty in the project cost estimate and in the Value Engineering recommendations developed. This is not a cause for concern but rather a fact to be integrated into the Value Engineering job plan and deliverables.

The Information phase should include information about project cost and schedule estimates and the uncertainty associated with the estimates. During the Evaluation and Development phases the uncertainty associated with ideas and recommendations should be captured. Finally, in the presentation phase the uncertainty associated with recommendations should be communicated. How is this done? Using ranges rather than single numbers.

12:00 PM – 1:00 PM

LUNCH

Grand Ballroom

1:00 PM – 3:00 PM

CONCURRENT 2A – VALUE METHODOLOGY

Evangeline Suite

Professional Development Session: Developing SAVE International's Formal Response to Mitigate Misinformation on What Constitutes a Value Study

Patrice Miller, CVS (RHA, LLC)

PDU: 2.0 hours

Core Competency: Value Methodology

Have you ever been frustrated by receiving a VM RFP that is scoped as a one-day workshop with no Job Plan....and function analysis is not even expected? When reading these RFPs, you realize this particular procurement office has no clue on what constitutes a value study. How do you respond to this type of RFP? If you don't respond, do you provide feedback to educate their organization on VM? This interactive session will help our industry advocate, educate and promote VM by developing SAVE International's standard response to these RFPs.

1:00 PM – 1:30 PM

CONCURRENT 2B – WORKSHOP STAGE

Regal Suite

1:00 PM

Global Value Enhancement- A Strategic Growth Pillar for Business (Sanjay Gaikwad – Alliance Laundry Systems)

PDU – 05. Hours / Core Competency: Workshop Stage (Six-Phase VM Job Plan)

1:30 PM

Application of Value Analysis/Value Engineering Principles to a Commercial Cylindrical Lock (Suresh Jayabal – Allegion)

PDU – 05. Hours / Core Competency: Function Analysis

2:00 PM

Value Engineering: A Case Study on Street Light Junction Box (Prof. R. M. Belokar – Punjab Engineering College)

PDU – 05. Hours / Core Competency: Value Methodology

2:30 PM

Value Methodology Study on Excavator Cabin - Controls & Structures (Mihir Tungare – TATA Technologies)

PDU – 05. Hours / Core Competency: Cost Analysis

1:00 PM – 1:30 PM

CONCURRENT 2C – TRANSPORTATION TRACK (COST ANALYSIS)

Fleur de Lis Suite

1:00 PM

Utilizing a Modified Function Value Resource Matrix in Transportation Projects (Thomasa W. Hume, CVS and Mark Sujka – Washington State Department of Transportation)

PDU – 05. Hours / Core Competency: Workshop Stage (Six-Phase VM Job Plan)

An important but often omitted step in value analysis is application of the “Function Value Resource Matrix”. The “Function Value Resource Matrix” provides a discernible key in demonstrating the most advantageous functions for which to focus the team’s efforts within the study. In new product manufacturing it may be of vital importance to identify the how the cost of each individual component contributes to the overall product, but how can one apply this oft times lengthy process to a large transportation project while preserving the teams time and momentum? Most of our standard transportation projects are comprised of very similar work that we are very familiar with, and the makeup of the work items, well understood. Presented here is the use of a modified “Function Value Resource Matrix” to achieve the benefits of doing the function value exercise, while fitting it into a shorter, meaningful timeframe for standard transportation projects. The modified function value resource matrix makes use of the project cost estimate and the major work type elements, i.e. structures, earthwork, surfacing. The work type elements are used in the matrix with the identified key functions, and the team gives a weight of importance to each element based on the importance to the principal project need. Each project element is then correlated to the identified functions: 1 = weak, 3 = moderate, 5 = strong. The correlation scores and importance scores are multiplied to provide an overall weight to the work element/function combination and the function cost is calculated. This modified method secures the teams the ability to use the larger work elements that are comprised of many smaller components, and identify the associated cost contribution to important project functions. This method maximizing the time and resources used where, when utilizing the traditional method for a transportation projects, much of the function value exercise would provide little additional useful or beneficial knowledge about function cost.

1:30 PM

Unit Price Visualization Tool in GIS Environment for Cost Estimating (K. Joseph Shrestha and H. David Jeong – California Department of Transportation)

PDU – 05. Hours / Core Competency: Function Analysis

Cost estimating is one of the most important and challenging tasks for highway construction project owners. Reliable accuracy of an engineer’s estimate is desired to ensure the optimum utilization of an available budget for a highway agency. In the past and still today, state highway agencies have heavily used an estimator’s experience and judgment to produce an engineer’s estimate. While a human brain may be able to account for a few factors simultaneously that may affect the cost of a work item, efficient evaluation and consideration of various spatial factors and quantity factors on the costs of many work items in the ever-growing amount of historical project cost data is almost impossible for a human being to cognitively handle. This presentation will discuss a recent study conducted on historical bid data available in California Department of Transportation (Caltrans). In this study, a computational algorithm was developed to automatically evaluate and quantify the effect of a project’s location and the quantity of a work item and visualize the results on a computer screen for effective communication with the estimator. An add-in tool for Environmental Systems Research Institute (ESRI) ArcGIS software was first developed and later, a 100% web-based tool was developed to make it free from the dependency on a commercial software program. The web-based tool, namely, Unit Price Visualization and Estimating Tool (UPVET) can provide a visual overview of the statewide construction market conditions and is able to estimate the unit price of a bid item at various locations in the state of California based on historical unit price data. It is based on the Tobler’s First Law of Geography that states that the points closer together in space are more likely to have a similar value than points farther away. The tool is able to filter the historical bid items by quantities and bid year as well before producing estimates to provide more granular and reliable adjustments to the estimated unit prices. The tool is expected to enable estimators to generate estimates with higher certainty. The presentation will demonstrate the UPVET to showcase the power of the tool.

2:00 PM

Value Engineering and the Importance of Considering Cognitive Bias (Mark Sujka and Thomasa W. Hume, CV – Washington State Department of Transportation)

PDUs – 05. Hours / Core Competency: Team Facilitation

A recent Virtual PM Challenge explored the importance of raising awareness of cognitive bias in engineering decision-making and limiting its impact on NASA projects.

Raising awareness of cognitive bias is an effective first step in reducing cognitive bias in project decision-making. The professional Value Engineering leader is looked to as an objective guide in project review and examination. Objectivity of the VE Leader is enhanced and validated when they guard against their own cognitive biases and help others recognize and avoid cognitive bias.

How cognitive biases emerge and how to proactively inoculate the VE study against them is explored in the paper and presentation.

2:30 PM Using Value Engineering for Multimodal Transportation Design and Tradeoff Decisions

PDUs – 05. Hours / Core Competency: Workshop Stage (Six-Phase VM Job Plan)

3:00 PM – 3:30 PM **NETWORKING BREAK** Grand Ballroom Foyer

3:30 PM – 5:30 PM **CONCURRENT 3A – POST WORKSHOP** Evangeline Suite

Professional Development Session: VM Report Training

Laurie Dennis, CVS-Life, PE

PDUs: 2.0 hours

Core Competency: Post-Workshop Stage

The Value Engineer (VE) report is often overlooked during value training with little or no guidance for the future value practitioner and as an afterthought by some value practitioners. However, the VE report lives beyond the workshop in the files of the clients and users of those value studies. When a project or product has budget or schedule issues or concerns, one of the first documents management reaches for is the VE report.

For many clients, the VE report becomes the primary marketing tool for future value studies and maintenance of their value program. In addition, the quality of many of these reports reflect the lack of focus and reflects poorly on the value community.

The purpose of this session is to give the attendees, owners, users and practitioners, input, tools and techniques to improve the quality of the VE report and discuss opportunities for improvement in the future.

3:30 PM – 5:30 PM **CONCURRENT 3B – WORKSHOP STAGE** Regal Suite

3:30 PM *Value Analysis for Torque Converter Cover Assembly* (Manthan Lad – Schaeffler Group USA)

PDUs – 05. Hours / Core Competency: Team Facilitation

4:00 PM *Value Analysis to Improve Value of Diagnostic Process* (Ranbir Kumar – TATA Motors Ltd.)

PDUs – 05. Hours / Core Competency: Value Program

4:30 PM *Integrating Suppliers in VA/VE Studies* (Marc Pauwels – Krehl & Partner - The Value Manager)

PDUs – 05. Hours / Core Competency: Workshop Stage (Six-Phase VM Job Plan)

5:00 PM *Value Engineering: Definition of Functions Through Requirements and Specifications on Product Design* (Sara Camacho – Universidad Panamericana)

PDUs – 05. Hours / Core Competency: Function Analysis

3:30 PM – 5:30 PM **CONCURRENT 3C – TRANSPORTATION TRACK
(TRANSFORM INFORMATION)** Fleur de Lis Suite

3:30 PM	<p><i>Baseline – Confirming Interchange VE Study Yields \$11M Cost Savings</i> (Warren Knoles, PE, CVS – Crawford, Murphy & Tilly)</p> <p>PDU – 05. Hours / Core Competency: Transform Information</p> <p>Following five years of preliminary engineering, environmental studies, and public involvement, the Illinois Department of Transportation (IDOT) commissioned a value engineering (VE) study on the resulting Phase I (30%) conceptual design for the replacement of the 1960s-vintage, Interstate 74 (I-74), cloverleaf interchange with a diverging-diamond interchange (DDI). The author and the study team anticipated the likelihood of several viable VE proposals that would improve the baseline design concept. Surprisingly, the VE study resulted in confirmation of the baseline DDI design concept as the optimum design solution. However, the VE team identified 11 viable VE proposals of which six were accepted for implementation totaling \$11 million (15%) in construction cost savings. This paper briefly describes how the VE study team applied the value methodology to the baseline project, the resulting six accepted VE proposals, and several “lessons learned” that emerged from the study. This paper affirms the effectiveness of the VE methodology in reducing project costs on transportation projects and enhancing their value.</p>	
4:00 PM	<p><i>Sewerage and Water Board of New Orleans</i> (Fred Tharp – Sewerage and Water Board of New Orleans)</p> <p>PDU – 05. Hours / Core Competency: Value Program</p> <p>An overview of the New Orleans Sewerage and Water Board, their role and functions.</p>	
4:30 PM	<p><i>Best VE Recommendations Ever</i> (Blane Long – HDR, Inc.)</p> <p>PDU – 05. Hours / Core Competency: Value Program</p> <p>"Greatest Hits" of VE recommendations are shared during this session</p>	
5:00 PM	<p><i>Building a VE Program - Oregon DOT</i> (Zach Davis – Oregon Department of Transportation)</p> <p>PDU – 05. Hours / Core Competency: Value Program</p> <p>The ODOT Statewide Project Development Section sponsored a Project Risk Management/Value Engineering/Constructability Review Task Force charged with submitting a formal whitepaper with recommendations for leading the agency toward improved implementation of project risk management, value engineering and constructability reviews for project delivery. This paper deals with this effort.</p>	
7:30 PM – 9:30 PM	INTERNATIONAL FORUM	Fleur de Lis Suite

Tuesday, June 9, 2020

7:00 AM – 8:00 AM	BREAKFAST	Grand Ballroom Foyer
8:00 AM – 9:00 AM	VM GUIDE UPDATE	Grand Ballroom
9:00 AM – 9:45 AM	TIGER TEAM PRESENTATION	Grand Ballroom
9:45 AM – 10:00 AM	NETWORKING BREAK	Grand Ballroom Foyer
10:00 AM – 12:00 PM	CONCURRENT 4A – COST ANALYSIS Professional Development: Life Cycle Cost Analysis Techniques Greg Brink, CVS, PMP, PMI-RMP, PMI-PBA, CCEA, ENV SP (Value Management Strategies, Inc.)	Evangeline Suite

PDU: 2.0 hours

Core Competency: Cost Analysis

This 2-hour Continuing Education (CE) course will explore a streamlined method to perform life cycle cost analysis using advanced techniques, such as risk analysis and sensitivity analysis, to improve the decision-making process during Value studies. Additionally, graphic presentation methods that simplify cash flow analysis will be addressed so that participants can easily present a range of possible net present value (NPV) costs and schedules for future major maintenance events. Additional techniques will explore integration of risk-based cash flow analysis for estimating the total cost of ownership of alternatives to help stakeholders understand the implications project development and design decisions. Armed with improved information concerning life cycle cost, participants can balance initial and future cost to optimize their designs, improve the Value of their programs, and support their design decisions with defensible cost analysis leading to a higher probability of net Value Improvement and ultimate Value Alternative implementation.

10:00 AM – 12:00 PM	CONCURRENT 4B – PERFORMANCE	Regal Suite
10:00 AM	<i>The Many Uses of Functional Performance Specification</i> (Lucie Parrot – Martin Parrot Inc.) PDU: 05. Hours / Core Competency: Function Analysis	
10:30 AM	<i>Giving a Client Value - Whatever That Is!</i> (John Downer – PENSPEN LTD) PDU: 05. Hours / Core Competency: Value Methodology	
11:00 AM	<i>Effectiveness Evaluation of KAVE Model for VE Alternative Verification</i> (Byung-Soo Kim – Kyungpook National University/Korea Value Engineering Institute) NOT CONFIRMED PDU: 05. Hours / Core Competency: Value Methodology	
11:30 AM	<i>An Experiment Comparing COMBINEX and Choosing by Advantages to Evaluate Alternatives</i> (John Koga – Lean Construction Value Specialties LLC) PDU: 05. Hours / Core Competency: Workshop Stage (Six-Phase VM Job Plan)	
10:00 AM – 12:00 PM	CONCURRENT 4C – SERVICE INDUSTRY (WORKSHOP STAGE)	Fleur de Lis Suite
10:00 AM	<i>New Three Techniques for New Store Opening and New Business Investment</i> (Hisaya Yokota – Functional Approach Institute Co., Ltd.) PDU: 05. Hours / Core Competency: Value Program	
10:30 AM	<i>The Function Analysis Business Planning System as New Methodology for Business Startups</i> (Noriko Murakami – Legend Consulting Company Limited) PDU: 05. Hours / Core Competency: Function Analysis	
11:00 AM	<i>Development of a New Improvement Method of Combining Multiple Facilities for a Better Commercial Complex</i> (Daisuke Kaida – Higuchi Group / FA Development Department) PDU: 05. Hours / Core Competency: Cost Analysis	
11:30 AM	<i>Value Study of a Business Process with Application of Statistical and Lean Tools: A Case Study in Canteen Services</i> (Sandeep Singh – Tata Motors) PDU: 05. Hours / Core Competency: Transform Information	
12:00 PM – 1:00 PM	AWARDS BANQUET LUNCHEON	Grand Ballroom
1:00 PM – 3:00 PM	CONCURRENT 5A – PROGRAMS (VALUE PROGRAM)	Evangeline Suite
1:00 PM	<i>Adopting Value Management in the Organisation: Challenges for VM Champions</i> (Timme Hendriksen – Value FM/ProRail) PDU: 05. Hours / Core Competency: Value Program	

1:30 PM	<i>Creating Value in Army Programs to Benefit the Soldier</i> (Sharon Aldijaili – SAIC) PDUs – 05. Hours / Core Competency: Value Methodology	
2:00 PM	<i>Improving cities through Systems Thinking</i> (Abraham Lukose – ATINA Systems) PDUs – 05. Hours / Core Competency: Transform Information	
2:30 PM	<i>Texas Department of Transportation – Status of the Value Engineering Program</i> (Jane Lundquist – Texas Department of Transportation) PDUs – 05. Hours / Core Competency: Value Program	
1:00 PM – 3:00 PM	CONCURRENT 5B – MVF FORUM / TEAM FACILITATION Professional Development Session: Facilitating the Value Methodology Ginger Adams, IAF CPF, CVS-Life, FSAVE (Advantage Facilitation Services) PDU Hours: 2.0 Core Competency: Team Facilitation Facilitation is one of the critical skills necessary for the effective operation of a VM study team, yet many VM practitioners have little or no facilitation training. The proposed session offers participants an opportunity to learn about basic facilitation training skills from a Certified Professional Facilitator who is also a Certified Value Specialist-Life. Usually presented as a hands-on, interactive training experience, attendees will discuss how to manage groups of people so that: everyone on the team is treated with respect and dignity; personality differences do not disrupt the team’s progress; and team members stay focused and on track.	Regal Suite
1:00 PM – 3:00 PM	CONCURRENT 5C – SERVICE INDUSTRY (VALUE METHODOLOGY) VM of "Five Senses Appeal" through its Value Measuring Method (Kazuhiro Fukae – Higuchi Group / Functional Approach Development Department) PDUs – 05. Hours / Core Competency: Function Analysis	Fleur de Lis Suite
1:00 PM	<i>VM of "Five Senses Appeal" through its Value Measuring Method</i> (Kazuhiro Fukae – Higuchi Group / Functional Approach Development Department) PDUs – 05. Hours / Core Competency: Function Analysis	
1:30 PM	<i>New Method to Apply VM to Analyze the Use Function and the Esteem Function of Yakigurit</i> (Keiko Ishii – Functional Approach Institute Company Limited) PDUs – 05. Hours / Core Competency: Function Analysis	
2:00 PM	<i>The VM based “Smile Make” Methodology Development for the Managers in Service Industry</i> (Sayaka Uchimura – Saizeriya Co.,Ltd) PDUs – 05. Hours / Core Competency: Value Methodology	
2:30 PM	<i>VM Study on the Personnel Evaluation System</i> (Tomohisa Kakiyama – Higuchi Group) PDUs – 05. Hours / Core Competency: Function Analysis	
3:00 PM – 3:30 PM	REFRESHMENT BREAK	Grand Ballroom Foyer
3:30 PM – 4:00 PM	CONCURRENT 6A – FAST OR NOT (FUNCTION ANALYSIS) When and How to Use Tabular Function Analysis (Don Stafford – Strategic Value Solutions, Inc) PDUs – 05. Hours / Core Competency: Function Analysis	Evangeline Suite
3:30 PM	<i>When and How to Use Tabular Function Analysis</i> (Don Stafford – Strategic Value Solutions, Inc) PDUs – 05. Hours / Core Competency: Function Analysis	
4:00 PM	<i>The Case for Generic Fast Diagrams</i> (James McCuish – Pinnacle Results LLC) PDUs – 05. Hours / Core Competency: Function Analysis	
4:30 PM	<i>Value Engineering Supported Software Development for Measuring the Unity Between Players</i> (Istvan Tarjani – FOKUSZ-2 Ltd) PDUs – 05. Hours / Core Competency: Pre-Workshop Stage	

5:00 PM	<i>Function Analysis - Perspectives & Alternative Approaches</i> (Jayesh Suhas Shimpi – HCL Technologies Limited) PDU – 05. Hours / Core Competency: Function Analysis	
3:30 PM – 5:30 PM	CONCURRENT 6B – TRANSFORM INFORMATION Professional Development Session: Transforming Information for Enhancing Value Studies Thomas Cook, CVS PDU: 2.0 hours Core Competency: Transform Information Session Objective will be to interactively demonstrate real world techniques for defining, collecting, organizing, and transforming data to aid Value Teams’ understanding of the value index (function cost divided by function worth). This transformation occurs initially in the pre-study information and data gathering period. Relevant data on cost, process, risk, quality, user expectations, goals etc need to be collected, demystified, and packaged in a concise, digestible format for effective use during the Value Study. This training session will demonstrate how to further transform this information, with an eye on function, by the Value Study Team to enhance their insights during the Information/Function Analysis Phase. This conference session will show best practice in identification, collection, modeling, packaging, all with the goal of transforming information and data to aid a Value Study Team in discovering new perspectives and opportunities.	Regal Suite
3:30 PM – 5:30 PM	CONCURRENT 6C – COST ANALYSIS <i>Estimate Reconciliation for Capital Construction Projects During a Value Engineering Workshop</i> (Chongba Sherpa – VJ Associates) PDU – 05. Hours / Core Competency: Cost Analysis	Fleur de Lis Suite
3:30 PM		
4:00 PM	<i>Cost – Rate of Return – Value</i> (Zsuzsanna Szeles – Budapest Metropolitan University) PDU – 05. Hours / Core Competency: Cost Analysis	
4:30 PM	<i>Design of sustainable buildings through Value Engineering Methodology</i> (Sherif Hammam – ICPM Group) PDU – 05. Hours / Core Competency: Value Program	
5:00 PM	<i>Sustainable Result-Based- Management Projects using VM Techniques</i> (Tareq Rasheed Mohammad – United Nations) PDU – 05. Hours / Core Competency: Value Methodology	

Wednesday, June 10, 2020

7:00 AM – 8:00 AM	BREAKFAST	Grand Ballroom Foyer
8:00 AM – 9:00 AM	CLOSING KEYNOTE	Grand Ballroom
9:00 AM – 12:00 PM	CONCURRENT 7A – INNOVATION (TRANSFORM INFORMATION) <i>Uncommon Denominator</i> (Jeff Rude – Value Management Strategies) PDU – 05. Hours / Core Competency: Value Methodology	Evangeline Suite
9:00 AM		
9:30 AM	<i>Technique to Generate Ideas Leading to High-value Alternatives in Creative Phase</i> (Ryohsuke Kimura – Mitsubishi Hitachi Power Systems,Ltd.)	

	PDU – 05. Hours / Core Competency: Workshop Stage (Six-Phase VM Job Plan)	
10:00 AM	<i>Applications of VE in Alternative Delivery</i> (Chuck Bartlett – Alfred Benesch & Company)	
	PDU – 05. Hours / Core Competency: Value Program	
10:30 AM	<i>Development of Template for Outlining Science and Engineering Research Based on Functional Thinking in VE and TRIZ</i> (Kiyohisa Nishiyama – Nagoya University, Graduate School of Engineering)	
	PDU – 05. Hours / Core Competency: Team Facilitation	
11:00 AM	<i>VM meets the Bermuda Quadrangle with Spiraling Dynamics, Value Methodology's Role in the Evolving World of Innovation</i> (Robert Prager – Strategic Value Solutions, Inc.)	
	PDU – 05. Hours / Core Competency: Team Facilitation	
11:30 AM	<i>The Possibility of VE and MOT Techniques in Various Innovation Activities</i> (Manabu Sawaguchi – Value Innovation Institute Co. Ltd.)	
	PDU – 05. Hours / Core Competency: Value Methodology	
9:00 AM - 10:00 AM	CONCURRENT 7B – VALUE METHODOLOGY	Regal Suite
9:00 AM	<i>Implementing Value Engineering for Designing a Student Friendly Wardrobe</i> (Sameera Nag B N – Bangalore Institute of Technology)	
	PDU – 05. Hours / Core Competency: Value Methodology	
9:30 AM	<i>Realigning Project Scope of Work Using Customized Value Strategy Steps</i> (Ahmed Ali – Azzouni Consulting Office)	
	PDU – 05. Hours / Core Competency: Pre-Workshop Stage	
9:00 AM – 10:30 AM	CONCURRENT 7C – USACE (VALUE PROGRAM)	Fleur de Lis Suite
9:00 AM	<i>Value Concept for Government Programs</i> (Corey White – U.S. Army Corps of Engineers)	
	PDU – 05. Hours / Core Competency: Value Program	
9:30 AM	<i>Pumping in Value: An Early Value Study for the Davis and Poe Pump Well Systems at Soo Locks Incorporating the Use of a Facility System Safety (FASS) Tool</i> (Amy Jo Riffie – U.S. Army Corps of Engineers)	
	PDU – 05. Hours / Core Competency: Transform Information	
10:00 AM	<i>Programmatic Value Management Studies- Not so Programmatic</i> (Jacob Walsdorf – U.S. Army Corps of Engineers, Galveston District)	
	PDU – 05. Hours / Core Competency: Transform Information	
10:00 AM – 12:00 PM	CERTIFICATION FORUM	Regal Suite
	PDU – 2.0. Hours / Core Competency: Team Facilitation	
10:30 AM - 12:00 PM	USACE PANEL	Fleur de Lis Suite
	Professional Development Session: <i>The Good, the Bad, and the Ugly of VE Studies</i>	
	Corey White, PE, CVS – U.S. Army Corps of Engineers	
	PDU: 1.5 hours	
	Core Competency: Value Program	
	As the design and construction agent for the U.S. Army and other federal agencies, USACE is one of the largest entities in the world to regularly perform Value Engineering as part of its business practices. USACE employs over 50 personnel dedicated to managing the Value Program for projects around the world. This session will be a discussion panel with 3-5 USACE Value Program personnel with experience in	

contracting, overseeing, and reviewing the efforts conducted by various firms. This panel will be a discussion of the experiences and lessons learned from these staff in an effort to share our experiences with the private sector to elevate the value of the studies performed and help team leaders better understand the needs and concerns of USACE and its customers.

12:00 PM – 1:00 PM	LUNCH (Ticket REQUIRED; For REGISTERED Government Forum and Post-Summit Workshop/Course Attendees ONLY)	The Jazz Playhouse
12:00 PM – 5:00 PM	Affiliate Meetings	Bourbon Hospitality Suite
1:00 PM - 4:00 PM	GOVERNMENT FORUM PDUs – 3.0. Hours / Core Competency: Value Program	Fleur de Lis Suite
1:00 PM – 5:00 PM	MULTI-DAY POST-SUMMIT WORKSHOP <i>Facilitation Skills for the Value & Quality Improvement Practitioner</i> Bruce Lenzer, CVS-Life, FSAVE, CQM/OE, CLA, CAQMSA – Synergy Value Solutions, LLC PDUs: 3.75 hours / 15 total hours Core Competencies: <ul style="list-style-type: none"> • Value Methodology • Transform Information • Team Facilitation • Function Analysis • Cost Analysis • Pre-Workshop Stage • Workshop Stage (Six-Phase VM Job Plan) • Post-Workshop Stage • Value Program <p>Facilitation skills have become more imperative over the years to effectively guide teams through the VM job plan. In fact, it's the skill set which has helped increase the output of teams to brainstorm and develop even greater opportunities for value improvement. In the Quality Assurance world, it's known as "High Performance Work Teams." For any "High Performance Work Team" to function effectively, the team needs a leader trained in facilitation skills. The same applies to Value Methodology VA/VE/VM teams. This 3-day course will help the Value and Quality Practitioners understand the set of applied facilitation skills and techniques that will best help their improvement teams achieve outstanding success.</p>	
1:00 PM – 6:00 PM	MULTI-DAY POST-SUMMIT COURSES <i>Value Methodology Fundamentals 1 (VMF1)</i> PDUs: 4.75 hours / 32 hours total <i>Value Methodology Fundamentals 2 (VMF2)</i> PDUs: 4.75 hours / 32 hours total	Bourbon Royal Conti

Thursday, June 11, 2020

7:00 AM – 8:00 AM	BREAKFAST (for registered VMF attendees)	Regal Suite
8:00 AM – 5:00 PM	MULTI-DAY POST-SUMMIT WORKSHOP <i>Facilitation Skills for the Value & Quality Improvement Practitioner</i>	

(Bruce Lenzer, CVS-Life, FSAVE, CQM/OE, CLA, CAQMSA – Synergy Value Solutions, LLC)
PDUs: 7.5 hours / 15 total hours

8:00 AM – 5:00 PM	MULTI-DAY POST-SUMMIT COURSES Value Methodology Fundamentals 1 (VMF1) PDUs: 8.50 hours / 32 hours total	Bourbon
	Value Methodology Fundamentals 2 (VMF2) PDUs: 8.50 hours / 32 hours total	Royal Conti
12:00 PM – 1:00 PM	LUNCH (for registered VMF attendees)	Regal Suite

Friday, June 12, 2020

7:00 AM – 8:00 AM	BREAKFAST (for registered VMF attendees)	Regal Suite
8:00 AM – 12:00 PM	MULTI-DAY POST-SUMMIT WORKSHOP Facilitation Skills for the Value & Quality Improvement Practitioner (Bruce Lenzer, CVS-Life, FSAVE, CQM/OE, CLA, CAQMSA – Synergy Value Solutions, LLC) PDUs: 3.75 hours / 15 total hours	
8:00 AM – 5:00 PM	MULTI-DAY POST-SUMMIT COURSES Value Methodology Fundamentals 1 (VMF1) PDUs: 7.50 hours / 32 hours total	Bourbon
	Value Methodology Fundamentals 2 (VMF2) PDUs: 7.50 hours / 32 hours total	Royal Conti
12:00 PM – 1:00 PM	LUNCH (for registered VMF attendees)	Regal Suite

Saturday, June 13, 2020

7:00 AM – 8:00 AM	BREAKFAST (for registered VMF attendees)	Regal Suite
8:00 AM – 5:00 PM	MULTI-DAY POST-SUMMIT COURSES Value Methodology Fundamentals 1 (VMF1) PDUs: 7.50 hours / 32 hours total	Bourbon
	Value Methodology Fundamentals 2 (VMF2) PDUs: 7.50 hours / 32 hours total	Royal Conti
12:00 PM – 1:00 PM	LUNCH (for registered VMF attendees)	Regal Suite

Sunday, June 14, 2020

7:00 AM – 8:00 AM	BREAKFAST (for registered VMF attendees)	Regal Suite
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8:00 AM – 12:00 PM

MULTI-DAY POST-SUMMIT COURSES

Value Methodology Fundamentals 1 (VMF1)

PDUs: 3.75 hours / 32 hours total

Bourbon

Value Methodology Fundamentals 2 (VMF2)

PDUs: 3.75 hours / 32 hours total

Royal Conti