

October, 2008

27
CSVA Conference
Day #1

→ INTRODUCTION TO VE →

- GETTING IT RIGHT
- CHOOSING THE RIGHT PROJECT
- CREATING VALUE IN SUSTAINABILITY

28
CSVA Conference
Day #2

→

- HIGHER EDUCATION
- DESIGN BUILD AND VE
- CREATING VALUE IN SURFACE TRANSPORTATION

→

- CREATING VALUE IN PRODUCT DEVELOPMENT
- ALTERNATIVE DELIVERY & RISK (P3)
- RISK BASED ASSESSMENT FOR INFRASTRUCTURE

→

- WATER AND WASTEWATER
- INNOVATION IN VE
- ESTIMATING AND MANAGING ESCALATION
- UNCONVENTIONAL USES OF VE

Additional Training Opportunities:

29	Risk-Based Evaluation for Infrastructure Projects	30	31
	Advanced Function Analysis Techniques		
Mod II Value Engineering Training			

Monday, October 27

9:00am	INTRODUCTION TO VE Scot McClintock, Faithful+Gould		
	Coffee and Networking Break		
10:15am	INTRODUCTION TO VE CONTINUED Scot McClintock, Faithful+Gould		
	Opening Luncheon Welcome - Steve Taylor, President, CSVA		
11:45am - 1:30pm	Keynote Speakers Jim Bolton, Global Lead - Value Engineering and DFMA, Whirlpool Corp. & Wayne Pettis, Manager, Projects & Modifications, Ontario Power Generation		
	GETTING IT RIGHT	CHOOSING THE RIGHT PROJECT	CREATING VALUE IN SUSTAINABILITY
1:30pm - 2:15pm	Developing a VE Program in Government Ted Lane, MTO	Value for Money Analysis for Surface Transportation Infrastructure David Lewis, HDR	Laboratory achieves gold sustainability certification through VE Scot McClintock, Faithful+Gould
2:15pm - 3:00pm	Developing a VE Program in Industry Jim Bolton, DFMA, Whirlpool Corp.	Cost Risk Analysis and Value Engineering Khalid Bekka, HDR	Green Sustainable Design Using Function Analysis: A Case Study Lucie Parrott, Nguyen - Parrott
	Coffee and Networking Break		

	GETTING IT RIGHT	CHOOSING THE RIGHT PROJECT	CREATING VALUE IN SUSTAINABILITY
		Some Observations on Transportation Agencies' Development of Project Risk Management Programs Travis McGrath, Golder Associates	Integrating Sustainability into the VE Job Plan Steve Holmes, MTO
3:15pm - 3:45pm	Acquiring VE Services Mike Pearsall, MTO & Dave Jull, MMM Group		
3:45pm - 4:15pm	Right Sizing VE Studies Brian Ruck, Totten Sims Hubicki	Creating Sustainable Value with Value and Risk Management Alain LeBlanc, Pratt & Whitney Canada	Innovative Worldwide VE Case Studies & How Cultural Values Impact Creativity George Hunter, VMS
4:15pm - 4:45pm	VE, What's in It For the Owner? Mike Asselin, Town of Renfrew, Jim Bolton, Whirlpool, Brian Peltier, George Tribe, Alberta Infrastructure	Creating and Sustaining Value - Panel Alain LeBlanc, PWR, D. Lewis, HDR	Creating Value in Sustainability - Panel Scot McClintock, Faithful+Gould, George Hunter, VMS, Steve Holmes, MTO
4:45pm - 6:00pm	Exhibitor Showcase Visit with Leading Innovators & Consultants		
6:00pm	Dinner, Keynote Speakers and CSVA Awards Keynote Speakers: Dan Breitman, Vice President, Pratt & Whitney Canada - VP PW800 Program & Monte Kwinter, Parliamentary Assistant to the Minister of International Trade and Investment		

Tuesday, October 28

8:00am - 8:30am	Opening Remarks		
	David Wilson, SAVE International President		
8:30am - 9:00am	Keynote Speaker		
	Hon. John Wilkinson, Minister of Research and Innovation		
	HIGHER EDUCATION	DESIGN BUILD AND VE	CREATING VALUE IN SURFACE TRANSPORTATION
9:00am - 9:30am	The VE Workshop at McGill University: Benefits for Students and Industry Dr. Vince Thomson, McGill University	Value Engineering in Design Build: Constructability Applications Stuart Sokoloff, CTS Group	West Transitway Tunnel VE Study Steve Stoddard, City of Ottawa
9:30am - 10:00am	Panel Discussion: VE in Higher Education Thomson, McGill, Lucie Parrot, Nguyen - Parrott	Design Build and VE - Experiences in Surface Transportation Dave Jull, MMM Group	West Toronto Diamond Rail/Rail Grade Separation Imants Hausmanis, GO Transit
10:00am - 10:15am	Coffee and Networking Break		
	CREATING VALUE IN PRODUCT DEVELOPMENT	ALTERNATIVE DELIVERY & RISK (P3)	CREATING VALUE IN SURFACE TRANSPORTATION
10:15am - 10:45am	VM - The link for Modern Management Improvement Tools Hank Ball, Ball Associates	Obtaining Value for Money on the Royal Ottawa Mental Health Centre Maureen Moore, Former Chief Financial Officer, Royal Ottawa Hospital	Howard Avenue Grade Separations - A Value Partnership Doug MacRae, MTO - Windsor BIIG & Brian Ruck, Totten Sims Hubicki / Aecom

Risk-Based Evaluation of Infrastructure Projects

Date: Oct 29, 2008

Time: 8:30am - 4:00pm

Location: [Holiday Inn Hotel and Suites, Markham Ontario](#)

Objective:

Improve decision-making and value in infrastructure projects by demonstrating the use of risk-based evaluation of project cost and schedule.

Who Should Attend:

This seminar is aimed at Project and Program Managers of Infrastructure Projects who are interested in understanding of the benefits and applicability of risk-based evaluations to improve decision making, and those looking for tools to help improve the decision making of public agencies. It is of particular use to those who have experienced unexpected and significant changes in project schedule and costs and who are looking for a generally accepted approach to identifying, quantifying, and managing these uncertainties.

The seminar will include a mock analysis of a small transportation infrastructure project (construction value \$10M to \$20M) and previous knowledge of value engineering or risk analysis is not required.

Course Outline:

This seminar is based on emerging techniques to undertake risk-based evaluations of schedule and cost. These techniques are mandatory under standard protocol in some public agencies in the U.K., Washington State, and in the U.S. Federal Transit Administration. Many other Federal, State/Provincial, and municipal agencies and utilities in the U.S. and Canada are beginning to apply these methods on their more challenging infrastructure projects.

This seminar will illustrate how Risk-Based Evaluation of infrastructure projects is a useful technique that improves the management of infrastructure projects, enables non-technical decision makers to understand cost and schedule uncertainties, and enables technical staff to manage uncertainties.

This seminar presents an innovative, practical, and cost-effective approach that helps mitigate these problems by: 1) quantifying actual project cost and schedule uncertainty within a probabilistic, risk-based, integrated cost and schedule model, 2) identifying and prioritizing critical cost and schedule risks and opportunities, as well as quantifying the

benefits of proposed mitigation strategies to address those critical risks and opportunities; and 3) improving owner and project team understanding and communication.

Outcome:

Seminar participants will be able to recognize the elements and applicability of risk based evaluations including:

- The practical principles and application of the approach through first-hand experience
- Projects that would benefit from risk-based evaluations

Seminar Leaders: Dr. S.J. Boone, Charles Lockhart, Dr. Travis McGrath

The seminar leaders have completed risk-based cost and schedule analyses on projects throughout North America and world-wide. They have co-developed and delivered training on infrastructure cost and schedule risk assessment to Washington State DOT (WSDOT), Utah DOT, North Carolina DOT, the US Federal Highways Administration, Ministry of Transportation Ontario, City of Toronto, and Waterfront Toronto corporation.

Recent projects completed by these individuals include WSDOT's proposed "mega projects", highway infrastructure for MTO, \$5B program of 150 WSDOT projects, a large urban waterfront revitalization program (building a city within a city) as well as for numerous smaller projects.

Dr. Boone is a graduate of Clarkson University and University of Toronto. Mr. Lockhart has an M.Sc. from Cornell University, and Dr. McGrath is a graduate of Seattle University and The University of Texas at Austin.

Seminar Cost:

\$375 for CSVA members, \$475 for non-CSVA members

More Information:

- [What is Risk-Based Cost and Schedule Analysis?](#)
- [Applications of RBCSA in Washington State](#)

Advanced Function Analysis Techniques

Date: Wednesday Oct 29, 2008

Time: 8:30am - 4:00pm

Location: [Holiday Inn Hotel and Suites, Markham Ontario](#)

Objective:

Expand the application of Function Analysis System Technique (FAST). Advanced FAST focuses on product development and “Soft” (non-hardware) issues, rather than existing hardware products. The power of FAST is demonstrated in analysing business and technical situations and creating models where no prior model exists. Topics include:

- The difference between “As Is” (existing) and “Should Be” (conceptual) product development
- Business and process FAST models
- Project Management FAST models
- Dimensioning FAST model

Who Should Attend:

Value practitioners that desire to advance application of FAST modeling. At a minimum, attendees must have had some experience in building FAST models. Knowledge of “Classis” FAST fundamentals is recommended.

Seminar Outline:

The course will be a combination of lecture and practical application by the attendees. Various scenarios will be offered for the attendees to practice building FAST models and functionally describing issues for problem resolution.

Outcome:

Attendees shall be able to apply advanced FAST techniques to resolve both existing product improvements problems as well as using FAST to define and resolve undefined future opportunities/problems.

Seminar Leaders: Henry “Hank” Ball, CVS

Hank Ball is President of Ball Associates, Inc. He has been a value practitioner since 1989, first at The Boeing Company and, since 2000, with Ball Associates. His clients have represented the aerospace, oil and gas and manufacturing industries. In addition he has facilitated construction Value Engineering studies for the US Army Corps of Engineers and product studies for the US Army Material Command. He is a retired AF

Officer with 6,000+ hours as a Pilot Flight Examiner. Hank holds a BA in Accounting and an MBA.

Seminar Cost:

\$375 for CSVA members, \$475 for non-CSVA members
(Conference attendees receive member rate)

Web Links:

- www.ballassociates.com

Mod II Value Engineering Training

Date: October 29 to 31, 2008

Time: 8:00am - 5:00pm

Location: [Holiday Inn Hotel and Suites, Markham Ontario](#)

Duration: 3 days

Trainers: Lucie Parrot, Eng. M. Eng. CVS (Life), Tom Fletcher, P.Eng. CVS

Goals

- Learn how to use VE/VA in many different situations
- Expand your know-how to other contexts
- Become more efficient moderators/facilitators
- Become real VE/VA professionals

Day 1

- Introduction
- Project structure and team building
- Variations to the job plan

Day 2

- Function analysis and the Functional Performance Specification
- Cost analysis
- Value engineering presentations

Day 3

- The creativity process
- Value Management
- Personal skills

Instructor: Mrs. Parrot, M. Eng., CVS (LIFE) is an industrial engineer with over 25 years of experience. She has extensive experience in the optimization of processes and products, in business and manufacturing applications. She has utilized the value engineering methodology and complementary methods, since 1991. Mrs. Parrot has moderated more than 150 workshops, in Value engineering, functional analysis (FPS) and concurrent engineering. Lucie Parrot has over 15 years of teaching and VE facilitation experience for various clients.

Instructor: Mr. Fletcher, P.Eng., CVS is the senior engineering manager responsible for all technical projects within the Fletcher Group; a company focusing on Value Engineering/ Management studies including functional performance specifications for the public and private sector including transportation, water / waste water, utility and building sectors. Tom has over 30 years of engineering experience including 9 years experience in VE.

Training Cost:

\$975 for CSVA members, \$1075 for non-CSVA members