

45th Annual Conference of SAVE International 2005

**San Diego, California, USA
26-29 June 2005**

ISBN: 978-1-62276-031-2

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2005) by SAVE International
All rights reserved.

Printed by Curran Associates, Inc. (2012)

For permission requests, please contact SAVE International
at the address below.

SAVE International
136 South Keowee Street
Dayton, OH 45402, USA

Phone: (937) 224-7283
Fax: (937) 222-5794

info@value-eng.org

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2634
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

Paired Comparison: Why Tools and Techniques Fit Within the Value Methodology	1
<i>Roy Woodhead</i>	
The Effectiveness of Conjoint Analysis in VE Functional Evaluation	11
<i>Kenji Takaki</i>	
Money from an Intuitive Perspective: Another Application of Function Analysis and FAST to Understand Decision-Making in Practice	24
<i>Gary R. Myers</i>	
Collaborative Activities Make Better Results for Value Study	35
<i>Chi-Yuan Lo, Larry Jung Hsing Lee</i>	
A New Evaluation Method of Interaction Effects Using Compound Added Functions and the Analysis on its Relationship to the Attributes of Potential Customers	47
<i>Masao Okuhara, Masayasu Tanaka, Hiroo Hirose</i>	
MEMORY + PREDICTION = INNOVATION: Glands and the Neocortex	60
<i>Theodore C. Fowler</i>	
Improving Alignment with Customer Requirements through VE and CBA	80
<i>John E. Koga, Theresa Lehman</i>	
A New Method for Generating Creative Ideas in Manufacturing VE for Mature Products	93
<i>Noboru Onaya</i>	
Development of FAST Diagrams for Manufacturing Processes	106
<i>James D. Bolton</i>	
Creative VE Activity Using Value Curve	114
<i>Byung-Mo Yang</i>	
The Future of Young Members in VE: Possibilities & How to Get There	124
<i>Lisa Mitten</i>	
A Value Management Approach to Improving Quality Performance	129
<i>James R. Wixson</i>	
How to Better Manage and Promote Your VE Program Within Your Company	147
<i>Clifford Louie</i>	
Applying VE+TRIZ Method to the Planning Phase of a Development Project - Case Study of Comfortable Rest Rooms for Shinkansen Railcars	155
<i>Yuichi Hamamoto</i>	
Value Methodology Successfully Leads to Cost-effective Treatment and Disposal of Mixed Low-level Waste Retrieved from the 218-W-4C Burial Ground	164
<i>S. R. Parikh</i>	
Project Screening in a Target Rich Environment	190
<i>David C. Winyard</i>	
Creating and Maintaining an Effective and Successful Value Analysis Program	198
<i>James A. Rains Jr.</i>	
21st Century Customer Value – Discovering How Traditional VM/VE Fits Big Picture Capital Investment	216
<i>Bruce Lenzer, Charles W. Jennings, James D. McCuish</i>	
Integrating Lean with Value Engineering	235
<i>Donald E. Parker</i>	
Discovering the REAL Project Using Business Process Modeling	245
<i>David C. Wilson</i>	
VE/TRIZ: A Technology Partnership	257
<i>Peter Hanik, J. Jerry Kaufman</i>	
Introducing Superimposed F.A.S.T in Privatization Decision Making	275
<i>Emad W. Shublaq</i>	
Value Stream Mapping & VM	288
<i>William C. Thorsen</i>	
Star Tracking: A Five Point, Omnological System for Progress and Realization	296
<i>Jeff Rude</i>	
Hierarchical Concept Modules for Improving Function Analysis of Construction VE Process	308
<i>Chi-Sung In, Chang-Taek Hyun, Kyo-Jin Koo</i>	
A Qualitative Comparison of Innovative Management Techniques in the Construction Industry	328
<i>Mir Farooq Ali, Saadi Assaf</i>	

VE Accomplishments in Rolling Stock Manufacturing at JR-EAST ~ Application of VE in Manufacture of Railcars ~	339
<i>Takeshi Kawamura</i>	
The Value of Sustainability	352
<i>John E. Koga, Theresa Lehman</i>	
CII's New On-line Value Management Toolkit	361
<i>James T. O'Connor, William C. Thorsen</i>	
Managing School Design for Life Cycle Cost Effective, Sustainable, Culturally Responsive Value	375
<i>Stephen J. Kirk, Michael M. Paquette</i>	
What/How of the “Work-out” Methodology: Competitor or Complement to VM	387
<i>Michael J. Cook</i>	
Avoiding the Chaos: Using Value Management to Achieve Integration for Mergers and Acquisitions	394
<i>Thomas Wiggins</i>	
Implementing the Risk Analysis in Evaluation Phase to Increase the Project Value	406
<i>Yuh-Huei Chang, Ching-Song Liou</i>	
Bank Cards in the Light of Value Management: Applications and Risks	425
<i>Mária Berényi, Ferenc Nádasdi, Kornélia Vámosi</i>	
Successfully Upgrading Legacy Simulation Equipment Using the Value Methodology	438
<i>Everette J. Stephens</i>	
Interstate 595 Corridor Value Analysis Process	445
<i>Richard L. Johnson, Rocco Deprimo, Del Younker, Chuck Hixon</i>	
Okeechobee Road VE Using Virtual Reality Simulation	451
<i>John Dovel, Richard L. Johnson, Del Younker, Chuck Hixon</i>	
Scoping Projects with Value Engineering to Obtain Context Sensitive Solutions	459
<i>Mike Pearsall</i>	
Value Analysis: An Effective Tool for Organizational Change	469
<i>Jill Ann Woller</i>	
Value Management in Health Care (“The Prodigal Beggar”)	479
<i>Ferenc Nádasdi, Mária Berényi, Kornélia Vámosi</i>	
Value Engineering and Design	489
<i>Ed McMahan</i>	
A New Evaluation Method of Value For Public Works	497
<i>Hisaya Yokota</i>	
Author Index	