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- 1. Project History - Closing the Loop, John K. Hollmann, PE, CCE, AACE Transactions, 1995
- 2. Value Engineering Enriches TCM Careers, Farid Fam Mansour, PE, CCE, AACE Transactions, 1995
- 3. Value Engineering: A Well-Kept Secret, James J. O'Brien, PE, AACE Transactions, 1995 Taking Value Engineering/Value Analysis Into the Twenty-First Century, Sol Mendelsohn; Howard B. Greenfield, Cost Engineering Journal, 1995
- 5. A Innovative Project Report, Mark T. Chen, Cost Engineering Journal, 1996 Assessing Environmental Parameters for Commercial Buildings, Dr. James Sommerville; Dr. G. Galbraith; S. Craig, AACE
- Transactions, 1996 7. Evaluating Environmental Restoration Cost Estimating Systems, W. David Featherman; Dr. R.F. Shangraw Jr., AACE Transactions,
- 8. Implementing a Database Estimating System, Robert H. Harbuck, PE CCE, AACE Transactions, 1996
- Business Process Reengineering: What It Is, What It Is Not!. Dr. Deborah S. Kezsbom, AACE Transactions, 1996
- 10. A Project Management Outline for Base Closures and Reuse A New Frontier, Timothy C. McManus; William Burke, AACE Transactions, 1996
- 11. Expert Rules-of-Thumb for Effective Design Coordination, Dr. Tarek M. Hegazy; Dr. Jameel Khalifa, PE, AACE Transactions, 1996
- 12. Understanding Direct Digital Controls for HVAC Systems, Krista Reeves, CCE, Cost Engineering Journal, 1996
- 13. The Challenge of Change, Sarwar A. Samad, Cost Engineering Journal, 1996
- 14. The Life-Cycle Perspective: Managing Cost Before it Occurs, Larry G. Medley, Sr., Cost Engineering Journal, 1996
- 15. Cost Awareness in Design: The Role of Data Commonality, David P. Hoult; C. Lawrence Meador; John Deyst; Maresi Dennis, Cost
- Engineering Journal, 1996 16. The Monetary System of Economy Management: A Primer for Cost Engineers, Dr. Amarjit Singh, P. Eng., Cost Engineering
- Journal, 1997
- 17. Value Engineering and the Texas Prison System Expansion, Robert Paul, Cost Engineering Journal, 1997 18. Parametric Modeling of Decontamination and Decommissioning Costs Using MCACES Gold, Michael G. Dieters, PE CCE, Cost
- Engineering Journal, 1997 19. A Strategy for the Development of a Cost Estimating Database, Columba Michael Geaney, CCC, Cost Engineering Journal, 1997
- 20. A Value Engineering Approach to Determine Quality Lightweight Concrete Aggregates, Dr. Jamal A. Al-Duaij; Khalid E. El-Laithy;
- Reena James Payappilly, Cost Engineering Journal, 1997 21. Best-Value Contracting Criteria, Dr. Douglas D. Gransberg, PE; Michael A. Ellicott, PE, Cost Engineering Journal, 1997
- 22. Lifelong Learning for Engineers: Riding the Whirlwind, Ernest T. Smerdon, Cost Engineering Journal, 1997
- 23. Facilities Management Benchmarks: Lessons Learned An Analysis of Facility Benchmarks Conducted at DOE Sites, G. Allan Engebretson, CCC: Bryan Skokan, CCE, AACE Transactions, 1997
- 24. Can Government Contracting Be Reengineered?, Larry G. Medley Sr., CCC, AACE Transactions, 1997
- 25. Privatization: A Closer Look, Terry Tyborowski; Michelle Primack; Kelly Matthews, AACE Transactions, 1997
- Evaluating Best Value Contract Proposals. Dr. Douglas D. Gransberg, PE. AACE Transactions, 1997
- 27. Estimating Archiving Costs for Engineering Records, Roger Alan Stutz, CCE, AACE Transactions, 1997
- 28. EDI System Aids Cost Management, Walter J. Strutt, PE CCE, AACE Transactions, 1997
- 29. Building a Cost Engineering Data Warehouse, Keith G. Decker; Anthony J. Oaks; Max Salinas, AACE Transactions, 1997
- 30. Developing a New Project Execution Model, Gudmund Vigerust, CCC, AACE Transactions, 1997
- 31. Value Engineering During the Project Execution Phase, Dr. George F. Jergeas, P.Eng.; Vernon G. Cooke, AACE Transactions, 1997

## **Cost Engineering in the Process Industries**

### **TABLE OF CONTENTS - Page 2**

- 32. Cost/Schedule Information System: A Human-Centered Approach, Dr. Chotchai Charoenngam; Abdul Samad Kazi, Cost Engineering Journal, 1997
- 33. A Performance-Based Procurement System Used by the State of Wyoming, Dean T. Kashiwagi, PE; Ziad Al-Sharmani, Cost Engineering Journal, 1997
- 34. A Review of Methods to Estimate Haul Fleet Production, Douglas D. Gransberg, Cost Engineering Journal, 1998
- 35. Build-Operate-Transfer: Evaluating Efficiency During the Operation Phase, Dr. Anthony B. Taylor Jr., Cost Engineering Journal. 1998
- 36. Cost Segregation Analysis: The Role of the Cost Engineer, John A. Kuprenas; James Y. Chang, Cost Engineering Journal, 1998
- 37. Total Cost Management in the Internet Age, Paul Doherty, AACE Transactions, 1998 38. Principles of Business Process Reengineering, TQM, and the Learning Organization, Victor S. Sohmen, CCC, AACE Transactions,
- 1998 39. Value Engineering in Capital Expenditure Projects, Prakash S. Mashelkar, AACE Transactions, 1998
- 40. A New Look at Total Cost Management, John K. Hollmann, PE CCE, AACE Document, 1998. 41. Estimating Change Orders: Cost or Opportunity?, Michael B. Carringer, AACE Document, 1998
- 42. Value Engineering Incentive Clauses, George F. Jergeas; Vernon G. Cooke; Francis T. Hartman, Cost Engineering Journal, 1999 43. Parametric Cost Estimating for Environmental Remediation Projects, Jacqueline Rast, PE; Kate M. Peterson, PE, AACE
- Transactions, 1999 44. Facility Parametric Cost Estimating, Edward R. Meyer, PE; Thomas J. Burns, PE, AACE Transactions, 1999 45. An Integrated Value Management Approach, Dr. George F. Jergeas, P.Eng.; Stephen O. Revay, CCC, AACE Transactions, 1999
- 47. Conceptual Cost Estimating for Building Construction. Philip D. Larson, CCE, AACE Document, 1999 48. Can Past Project History Affect Future Project Success?, Larry R. Dysert, CCC, AACE Document, 1999 49. Value Engineering for Lean Manufacturing, Drew M. Algase, AACE Document, 1999
- 50. Using Work Breakdown Structure in Cost Analysis, Neil F. Albert, AACE Document, 1999 51. The Keys to Forecasting - #1 Scope, James E. Baar; Stephen M. Jacobson, CCC, Cost Engineering Journal, 2004
- 52. The Keys to Forecasting #2 Work Breakdown Structure, James E. Baar; Stephen M. Jacobson, CCC, Cost Engineering Journal,
- 2004 53. The Keys to Forecasting - #4 Data Flow, James E. Baar; Stephen M. Jacobson, CCC, Cost Engineering Journal, 2004
- Cost of Quality, Valerie G. Venters, CCC. AACE Transactions, 2004 55. Developing Estimating Models, James D. Whiteside II, PE, AACE Transactions, 2004

66. Core Competencies, Expectations, and Career Path for an Estimating Professional, John K. Hollmann, PE CCE; Bruce G. Elliott,

56. The Cost Estimator's Dilemma, Melvin W. Perrott, CCE, AACE Transactions, 2004 57. Value Cost Management, James W. Hudson: Stephen P. Hudson, AACE Transactions, 2004

46. Value Engineering's Contribution to Project Success, Farid Fam Mansour, PE CCE, AACE Document, 1999

- 58. A Methodology for Estimating Engineering Details, James D. Whiteside II, PE, AACE Transactions, 2005
- 59. Preparing a Basis of Estimate, Todd Pickett, CCC, AACE Transactions, 2005
- 60. Profitability Estimation of Pioneering R&D Project, Mikko Varila; Matti Sievanen, AACE Transactions, 2005
- 61. Reliability and Accuracy of Estimates, Steven G.J. Boeschoten, AACE Transactions, 2005
- 62. So You Think You're An Estimator?, Larry R. Dysert, CCC; Todd W. Pickett, CCC, Cost Engineering Journal, 2005
- 63. Effective Cost Management Back to Basics, Robert L. Tichacek, PE, Cost Engineering Journal, 2006 64. Project Scope Management, Asadullah Khan, Cost Engineering Journal, 2006
- 65. Measuring and Managing Cost Escalation, Peter Morris: William F. Willson, AACE Transactions, 2006
- CCC, AACE Transactions, 2006 67. Is "Estimate Accuracy" an Oxymoron?, Larry R. Dysert, CCC, AACE Transactions, 2006
- 68. Bad Estimates Just Don't Happen, Joseph A. Lukas, PE CCE, AACE Transactions, 2006
- 69. So Is this the Estimate?, Kul B. Uppal, PE, AACE Transactions, 2006
- 70. Estimate Reconciliations, Barrett L. Richards, CCC PSP, AACE Transactions, 2006

# **Cost Engineering in the Process Industries**

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- 71. Accurate Estimates In Less Than a Minute, Glenn C. Butts, CCC, AACE Transactions, 2006
- 72. A Pragmatic Setup for Cost Estimation, Junaid Ahcom, ICC; Shafi Uddin; Ali Shash, AACE Transactions, 2006
- 73. Estimating at Owner Companies, Waymon D. Lofton, AACE Transactions, 2006
- 74. Front-end Specifications: Tool or Trouble?, Sidney J. Hymes, AACE Transactions, 2006
- 75. Competency Development at an Owners Organization, Paul Teklenburg; Sep Serfontein, AACE Transactions, 2006
- 76. Value Engineering for Hazardous Waste Projects, Richard A. Selg, CCE, AACE Transactions, 2006
- 77. Performing Value Analysis on Construction Project Variation Orders, Jamal Al Duaij; Tareg Awida; A.E. Kollarayam, Cost
- Engineering Journal, 2007
- 78. Parametric Factors as Applied to Pipeline Cost Estimating, Donald Polla, CCE, Cost Engineering Journal, 2007
- 79. Is the Theory of Cumulative Impact a Provable Reality?, Stephen P. Warhoe, PE CCE CFCC, Cost Engineering Journal, 2007 80. Escalation Estimation: Working With Economics Consultants, John K. Hollmann, PE CCE; Larry R. Dysert, CCC, AACE
- Transactions, 2007 81. Transforming Historical Project Data into Useful Information, Todd W. Pickett, CCC; Bruce G. Elliott, CCC, AACE Transactions,
  - 2007
- 82. Factored Estimating for Process Industries, Kul B. Uppal, PE, AACE Transactions, 2007
- 83. Contingency Modifier Tool, J.D. (Jim) Whiteside, II PE, AACE Transactions, 2007
- 84. Project Estimate Reviews for Oil and Gas Projects, YuTeck Chuong, PE CCE, AACE Transactions, 2007
- 85. Escalation: How Much is Enough?, Glenn Butts, CCC, AACE Transactions, 2007
- 86. The Theory of Indirect Costs, David A. Norfleet, CCC, AACE Transactions, 2007 87. Challenges in Estimating Costs Using Building Information Modeling, William E. Kraus, PE CCE; Steve Watt; Philip D. Larson, CCE
- PSP. AACE Transactions, 2007 88. ABC of Cash Flow Projections, Mark T. Chen, PE CCE, AACE Transactions, 2007
- 89. What is Cost Engineering and How is Cost and Schedule Management an "Engineering" Function?, John K. Hollmann, PE CCE,
  - Cost Engineering Journal, 2007
- 90. Bid Risk and Contingency Analysis, Amarjit Singh, PE; Sharilyn Shiramizu; Kamal Gantam, Cost Engineering Journal, 2007
- 91. An Introduction to Parametric Estimating, Larry R. Dysert, CCC, AACE Transactions, 2008
- 92. What is the U.S. Gulf Coast Baseline when Estimating Site Productivity?, Bruce E. Bradley, AACE Transactions, 2008
- 93. Estimating Preconstruction Services Fees for CM-at-Risk Projects, Douglas D. Gransberg, PE CCE; Jeremy B. Carlisle ICC, AACE Transactions, 2008
- 94. Earned Value Analysis Why it Doesn't Work, Joseph A Lukas, PE CCE, AACE Transactions, 2008

### Chapter 02: Cost Estimating Methodology

- ABC Estimating for Environmental Operations, Michael C. Ray, PE, CCE, AACE Transactions, 1995 1. 2.
- Cost Effective Selection of Environmental Remediation Processes, Jeffrey S. Brackeen; Samuel D. Gibson, CCE, AACE Transactions, 1995
- 3. Impact of Estimating Accuracy on Markup, Dr. Richard E. Larew, PE, AACE Transactions, 1995
- Cost Estimating System Reengineering, Frank D. Postula, PE, CCE; Richard L. Wall, AACE Transactions, 1995 4.
- 5. Cost Estimation of Structures in Buildings, Dr. Surinder Singh, AACE Transactions, 1995 6. Estimating? - Yesterday, Today, and Tomorrow, Kul B. Uppal, PE, AACE Transactions, 1995
- 7. Composite-Factored Estimating, Masahide Nishimura, AACE Transactions, 1995
- 8. Managing Changes and Claims on Design Contracts, Stephen F. Rusteika, Jr.; Gary H. Jentzen, PE, AACE Transactions, 1995
- 9. Developing Location Factors by Factoring, Bernard A. Pietlock, CCE, AACE Transactions, 1995
- 10. Pulp and Paper Capital Costs, Michael F. Davy; Dr. K. M. Thompson, AACE Transactions, 1995
  - Expert System Applications in Cost Engineering, Abhi Basu, PE, AACE Transactions, 1995

### **Cost Engineering in the Process Industries**

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- 12. A New Approach to Cost Engineering, Edward P. Camaya, AACE Transactions, 1995 13. Essential Cost Engineering Tools, Ignacio Manzaneera, CCC; Dr. Kahled Bu-Bshait, AACE Transactions, 1995
- 14. 'The Number' or 'The Result' Reliability, Accuracy, Precision, Confidence, or What?, AACE International Technology Directorate;
- Donald F. McDonald Jr., PE CCE, Cost Engineering Journal, 1995
- 15. Rapid Method for Capital Investment Decisions, Richard E. Winston, Cost Engineering Journal, 1995
- 16. Cost Estimation of Timber Bridges Using Neural Networks, Dr. Robert C. Creese: Li Li, Cost Engineering Journal, 1995
- 17. The Past and Future of Cost Engineering, Gideon Samid, Cost Engineering Journal, 1995
- 18. Estimating Remediation Costs for the Montclair Radium Superfund Sites, Mark J. Turner, CCC, Cost Engineering Journal, 1995 19. The Development of Cost Estimates for the Pricing of Commemorative Coins at the US Mint, Michael E. Kess, Cost Engineering
- Journal, 1995 20. How to Establish an Estimating Department, Kul B. Uppal; AACE International Cost Estimating Committee, Cost Engineering
- Journal, 1995 21. Definitive Estimating for Construction Projects at Remote Sites, Bennett W. Cleveland, PE CCE, Cost Engineering Journal, 1995
- 22. Shocks, Jolts, and Temors: Cost Impacts of the Base-Isolation Structural System, John R. Reser, CCE, Cost Engineering Journal.
- 23. Economics of Pipe Replacement/Installation Using Trenchless Technology, Dr. Robert A. McKim, Cost Engineering Journal, 1996 24. Real World Issues in Practical Cost Estimating, Dr. Amarjit Singh, P.Eng., Cost Engineering Journal, 1996 A Probabilistic Cost Estimating Model, Dr. Thomas E. Uher, Cost Engineering Journal, 1996
- 26. Estimation Knowledge: A Conceptual Framework for Cost Estimation, Gideon Samid, Cost Engineering Journal, 1996
- 27. An Oil Company Estimating Process from A to Z, Walter Weathersbee, ICEC Transactions, 1996 28. Cost Engineering in this Global Economy, John E. Barry, ICEC Transactions, 1996
- 29. Capital Cost Estimating for the Frontier Regions of the World: Questions a Savvy Estimator Should Ask First, Joseph R. Jefferv. Cost **Engineering Journal**, 1996
- 30. Internal Contracts, Cost Engineering, and Organizational Problems, Dr. Michel Nakhla; Dr. Louis Georges Soler, AACE Transactions, 1996 31. Cost Engineering Considerations in Privatization, Marc A. Zocher, CCC; Dr. Orman H. Paananen; Carol Sohn, AACE Transactions,
  - 1996
- 32. Utility Cost Estimating, William R. Fletcher, AACE Transactions, 1996
- 33. The Evolution of Estimating Systems at Kodak, John K. Hollmann, PE CCE; Larry R. Dysert, CCC, AACE Transactions, 1996 34. Pharmaceutical Cost Estimation, Gideon Samid, PE, AACE Transactions, 1996
- 36. Cost Estimating Using Historical Costs. Kymberli Popham, CCE, AACE Transactions, 1996
- 37. Thirty-Five Years of Hydroelectric Estimating, George H.S. Duddy, P.Eng., AACE Transactions, 1996
- 38. Using Cost Engineering Techniques to Upgrade Your Personal Finances (and Increase Your Investment Portfolio), F. Sam Griggs
- Jr., CCE, AACE Transactions, 1996 39. Cost Engineering and Continuous Performance Improvement, Peter W. Ripley, CCC, AACE Transactions, 1996
- 40. Engineering at the Millennium: A New Vision, National Research Council, Cost Engineering Journal, 1996
- 41. Factored Estimating Guidelines Refinery/Petrochemical Projects, Robert S. (Steve) Smith, PE CCE, Cost Engineering Journal,
- 1997
- 43. Estimating Costs With Fuzzy Logic, Anthony K. Mason, PE; Donald J. Kahn, Sr., AACE Transactions, 1997 44. Scope Development Problems in Estimating, Larry Dysert, CCC, AACE Transactions, 1997
- 45. Five Core Competencies of Cost Engineering, Bernard A. Pietlock, CCC, AACE Transactions, 1997
- 46. Scope Definition Is a Company Affair, Douglas McCue, AACE Transactions, 1997
- 47. Cost Engineering as an Academic Discipline, Patrick Sik-Wah Fong; Dodo Ka-Yan Ip, AACE Transactions, 1998
- 48. Parametric Estimates Made Easy, James J. Davis, PE, AACE Transactions, 1998

42. Estimating? Past, Present and 21st Century, Kul B. Uppal, PE. AACE Transactions, 1997

35. Estimating Engineered Equipment Costs, Kul B. Uppal, PE, AACE Transactions, 1996

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- 49. Estimating the Cost of Change Orders, Dr. Osama Moselhi, PE, AACE Transactions, 1998
- 50. Documenting and Presenting Estimates, Robert D. Bakewell, CCC, AACE Transactions, 1998
- 51. Project Estimating for the 21st Century, Douglas W. Leo, AACE Transactions, 1998
- 52. An Auditable Parametric Based Estimating System, Earl W. King, AACE Document, 1998
- 53. Parametric Estimation of Overhead Rates, Susan M. Dobson; Gene Lucas; Shari Sands, AACE Document, 1998
- 54. Process Based Estimating Within the NASA/Air Force Cost Model (NAFCOM98), L. Keith Smith, AACE Document, 1998
- 55. The Complete Estimating Tool Kit, James Collins, AACE Document, 1998
- 56. Developing a Parameteric System Engineering Cost Model, Ivan Vincenzini, AACE Document, 1998 57. A Conceptual Cost Estimating Model for Water Reservoirs, Mohammed Al Khalil; Sadi Assaf; Walild Abdul Rahman; Mashoor Asfoor,
- Cost Engineering Journal, 1999 58. Project Cost Estimating for Major Renovation Projects, James Sutherland, AACE Transactions, 1999
- 59. Estimating? Number/Confidence/Resources or What?, Kul B. Uppal, PE, AACE Transactions, 1999
- 60. How Accurate Are Piping Estimating Methods?, Chris P. Caddell; Gerald P. Klanac; Thomas J. Rye, AACE Transactions, 1999
- 61. Overcoming "Gotchas" Clauses in Construction Contracts, Donald F. McDonald Jr., PE CCE, AACE Document, 1999
- 62. Process Cost Engineering in the 21st Century, Kul B. Uppal, AACE Transactions, 2000
- 63. Cost Management, Allen C. Hamilton, CCE, AACE Transactions, 2004
- 64. What is Cost Engineering?, John K. Hollmann, PE CCE, Cost Engineering Journal, 2006
- 65. Total Cost Management Framework to be Released at AACE International's 2006 Annual Meeting, John K. Hollmann, PE CCE, Cost
- Engineering Journal, 2006

#### Chapter 03: Project Management

- Team-Based Cost Management, Christopher O. Gruber, CCC; Stephen A. Flannery, CCE, AACE Transactions, 1995 1.
- 2. Management Responsibilities in Creating Team-Based Empowered Organizations, Dr. Deborah S. Kezsbom, AACE Transactions, 1995
- 3. The Effectiveness of Project Management as a Design Team Organizational Structure, Dr. P. A. Bowen; M. J. Wyrley-Birch, AACE Transactions, 1995
- 4. The Nelson Funnel Experiment, Gershon Blumstein, AACE Transactions, 1995
- Total Cost Management of Capital Projects, Gamini A. K. Padmaperuma, CCE; Khalid A. Al-Mansour; Nasser F. Akeel, AACE 5. Transactions, 1995
- The Unique Problems of Upgrade Projects, Sterling Stoddard; Lewis G. Manwaring, Jr., PE. AACE Transactions, 1995 6. 7. Innovative Sludge Stabilization Method, Jack D. Riggenbach, PE, Cost Engineering Journal, 1995
- So, the Budget Ran Over ... Because?, Michael Putzer, Cost Engineering Journal, 1995 8.
- 9. Waste Not, Pollute Not, Carol Ehrle, Cost Engineering Journal, 1995
- 10. Energy and Cost TCM Management Discussion: The Global Gas Industry, Roger M. Batten, Cost Engineering Journal, 1995
- 11. Too Much Project Management: A Vice in Disguise (and How to Minimize It), Gideon Samid, PE, Cost Engineering Journal, 1995 12. Cost and Project Management: Residential Air Conditioning in Saudi Arabia, Mitza Kurshid Arshad, CCE, Cost Engineering
- Journal, 1995
- 13. TCM: A New Look at Total Cost Management, John K, Hollmann, Cost Engineering Journal, 1996 M/EPCC Replaces EPCM, Charles Poulton, PE CCE, AACE Transactions, 1996
- 15. Simplified Project Economic Evaluation, Mark T. Chen, PE CCE, AACE Transactions, 1996
- 16. Impact of Information Technology on Construction Project Management, Abhi Basu, PE, AACE Transactions, 1996
- 17. A Decision Support System for Project Planning, Prasanta K. Dey; Mario T. Tabucanon; Dr. Stephen O. Ogunlana, AACE
- Transactions, 1996 18. ROI for Management, R. Eugene Reed Jr., PE CCE, AACE Transactions, 1996

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- 19. Concurrent Management of Total Cost and Total Quality, Bryan R. McConachy, P.Eng., AACE Transactions, 1996
- 20. Focus: Total Cost Management, Jean-Paul Prentice, CCE, AACE Transactions, 1996
- 21. The Project Manager for "Concurrent Engineering", William F. Geritz III, Cost Engineering Journal, 1996
- 22. The Modern Project Manager, Mark T. Chen, PE CCE, Cost Engineering Journal, 1997
- 23. Empowered Team-Based Project Management in Developing Countries, Nicoline Boshoff; Pierre M. van Zyl, AACE Transactions, 1997
- 24. Life Cycle Project Management, Dr. Douglas D. Gransberg, PE; Michael A. Ellicott, PE, AACE Transactions, 1997
- 25. Life-Cycle Costs!!!!!?????, Joseph W. Wallwork, PE CCE, Cost Engineering Journal, 1998
- 26. Project Teams: The Role of the Project Office, Quentin W. Fleming; Joel M. Koppelman, Cost Engineering Journal, 1998
- 27. The Leadership Factor: Leading the Way Toward the Next Millennium, Deborah S. Kezsbom, AACE Transactions, 1998
- 28. Effective Management of Turnkey Projects, P. Giridhar; K. Ramesh, AACE Transactions, 1998
- 29. Top-Down Back-To-Front Project Planning, Faramarz Fred Rahbar; James E. Rowings Jr., PE CCE, AACE Transactions, 1998
- 30. The Opening Game Project Mobilization, Edward E. (Ted) Douglas III, CCC, AACE Transactions, 1998
- 31. Team Building and Project Success, Abdulaziz A. Bubshait; Gulam Faroog, Cost Engineering Journal, 1999
- 32. Successful Managing Backlogs and Resources, Anthony J. Werderitsch, PE CCE; Timothy H. Orr, CCC; Kenneth R. Cross, PE, AACE Transactions, 1999
- 33. The Management Information Tool System, Shawn L. Kildare; George P. Blank, AACE Transactions, 1999
- 34. Leadership, Teamwork, and Empowerment: Management Toward 2000, Carlos G. Taborda M., PE, AACE Transactions, 1999 35. Project Alignment: The Key to Successful Cost Engineering, Gregory J. Skulmoski; Dr. Francis T. Hartman, P.Eng., AACE
- Transactions, 1999
- 36. Practical Dispute Management, James G. Zack Jr., AACE Document, 1999
- 37. Creating Teamwork in Virtual Teams, Deborah S. Kezsbom, Cost Engineering Journal, 2000
- 38. The Project Achilles Heel: Misalignment, Gregory J. Skulmoski; Francis T. Hartman, Cost Engineering Journal, 2000 39. Improve Profitability through Effective Project Management and TCM, Nick J. Lavingia, PE, AACE Transactions, 2003
- 40. Is Your Organization Friendly to Projects?, Parviz F. Rad, PE CCE; Ginger Levin, AACE Transactions, 2003
- 41. Portfolio Approach to Program Management, Robert B. Connors, PE CCE, AACE Transactions, 2004
- 42. Teaching Project Management and Cost Engineering, Glenn Maples; Anna Greco; Ron Heady; John Tanner, AACE Transactions, 2005
- 43. Introduction Management and Controls to Field. Sean T. Regan, CCE, AACE Transactions, 2005
- 44. Cost Management in the Stage-Gate System, Ugo Ibusuki, AACE Transactions, 2005
- 45. Implementing Project Constructability, Douglas D. Gransberg, PE CCE; Edward E. Douglas III, CCC PSP, AACE Transactions,
- 46. A Formalized Model for Managing a Portfolio of Internal Projects, Parviz F. Rad, PE CCE; Ginger Levin, AACE Transactions, 2005
- 47. Implementing Best Practices for the 21st Century, Simon Taylor; Peter Morris, AACE Transactions, 2005
- 48. The Root Causes of Poor Communication, Sue Dyer, Cost Engineering Journal, 2006
- 49. How to Create a World Class Project Management Organization, Nick J. Lavingia, PE, AACE Transactions, 2006 50. Project Management Maturity Assessment, Parviz F. Rad. PE CCE: Ginger Levin, AACE Transactions, 2006
- 51. The "Cool Hand Luke" Theory of Project Communication, William E. Kraus, PE CCE, AACE Transactions, 2006
- 52. Human Side of Project Management, Madhu P. Pillai, CCC, AACE Transactions, 2006
- 53. Achieving a Successful Project by Motivating the Project Team. Dorothy Ann Brenner, Cost Engineering Journal, 2007
- 54. Project Management Sophistication and EPMO, Parviz F. Rad, PE CCE; Ginger Levin, AACE Transactions, 2007
- 55. Lessons Learned Process Aligns with Project Life-Cycle, Operations and Engineering Governance, Ewa Piatkiewicz, AACE Transactions, 2007
- 56. Management of Uncertainties and Consequential Costs for Construction Projects in China, Dan Tong Cao; Shou Qing Wang; Robert Tiong, Cost Engineering Journal, 2008

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- 57. Estimating Uncertainty for a Life-Cycle Cost Management Program, Dan Melamed, CCC; Bryan Skokan, PE; Mathew Zenkowich; Dan Kocher, Cost Engineering Journal, 2008
- 58. The Role of Project Managers in Construction Industry Development, Martyn James Hills; Paul William Fox; Martin Skitmore; Carol K. H. Hon; Patrick Sik-Wah Fong, AACE Transactions, 2008
- 59. Project Management, Cost Engineering, Project Definition, Action Plans or What?, Kul B. Uppal, PE, AACE Transactions, 2008
- 61. Using the TCM Framework for Consistency and Comparability of Various Types of Environmental Cost Estimates, Gordon Lee Ballentine; Amy Gignac, AACE Transactions, 2008

#### **Chapter 04: International Projects**

- Construction Production Factors in International Areas, Dr. Enno Koehn; Chih-Shing Pan; Jen-Yuan Liu; Rana P. Pingili; Sirichai Tanratanawong, AACE Transactions, 1995
- 2. International Cost and Resource Database, Peter Christensen, AACE Transactions, 1995
- 3. Development of a Standard Cost-Coding System, Peter Christensen; Gudmund Vigerust, AACE Transactions, 1995 Cost Engineering Skills Required for Global Programs, John E. Barry, Cost Engineering Journal, 1995
- 4.

60. What is Project Portfolio Management?, Parviz F Rad. PE CCE: Ginger Levin, AACE Transactions, 2008

- 5. Understanding the Chinese Construction Costing System, Dr. He Zhi, Cost Engineering Journal, 1996
- Sources of International Cost Data, Kenneth K. Humphreys, ICEC Transactions, 1996 6. 7. Techniques and Tools for Project Cash Flow Prediction in the Australian Construction Industry, Timothy R. O'Leary; Selwyn Tucker,
- AACE Transactions, 1996 Total Cost Management for Mega Projects Constructed by the Korean Public Corporation, Yong-Eok Lee, AACE Transactions, 8. 1996
- 9. Managing Risk on Global Projects, Charles P. Woodward, PE CCE; Kartar Singh, PE, AACE Transactions, 1996
- 10. Plan Local, Buy Global, Dennis M. Thompson, CCE, AACE Transactions, 1996
- 11. Project Ownership in the Third World, Ram Dabadghav, PE CCE, AACE Transactions, 1996
- 12. Productivity of Construction in Developing Areas: India, Enno Koehn, PE: V. R. Ganapathiraju, AACE Transactions, 1996

14. The Global Economy, David E. Bond, Cost Engineering Journal, 1996

- 13. International Standards: The US Construction Industry's Competitiveness, Dr. Janet K. Yates; Dr. Stylianos C. Aniftos, PE, Cost
- Engineering Journal, 1996
- 15. Understanding Interaction in International Projects, Kim Wikstrom; Stefan Storholm, Cost Engineering Journal, 1997
- 16. Lump-Sum Contract Performance Singapore Experience. Dr. Surinder Singh, AACE Transactions, 1997
- 17. Cost Comparison of Pacific Rim Countries, John G. McConville, CCC, AACE Transactions, 1997
- 18. Cost Estimating Challenges Facing Eastern Europe, Richard A. Selg, CCE, AACE Transactions, 1997
- 19. 1996 Japanese Chemical Plant Cost Trends, Yoshimi Saito, AACE Transactions, 1997

25. Modeling and Forecasting Asia's Infrastructure Growth, Abdul Samad Kazi, AACE Transactions, 1999

- 20. Malaysia A Country Looking Ahead with Vision 2020, Stephen P. Warhoe, PE CCE, Cost Engineering Journal, 1997
- International Projects Cost Estimating, Allen C. Hamilton, CCE, AACE Transactions, 1998. 22. International or Cross-Cultural Projects, Irving M. Fogel, PE, AACE Transactions, 1998
- 23. The Planning and Execution of an International Project, Charles P. Woodward, PE CCE; Kenneth K. Humphreys, PE CCE, AACE Transactions, 1998
- 24. Project Overhead Costs in Saudi Arabia, Sadi A. Assaf; Abdulaziz A. Bubshait; Solaiman Atiyah; Mohammed Al-Shahri, Cost Engineering Journal, 1999
- 26. International Cost Data. 0. Cost Engineering Journal. 2000
- 27. Be Prepared for Construction Claims -- Globally, Rohit Singh, AACE Transactions, 2000
- 28. International Cost Data, 0, Cost Engineering Journal, 2000

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### **TABLE OF CONTENTS - Page 8**

- 29. Project Management and Total Cost Management in Italy, Gianluca di Castri, Cost Engineering Journal, 2000
- 30. Construction Inspection Practices in Southeastern Asia. Enno Koehn, PE: Abu Abdullah Almamun: I.S.M. Mostague Haider, AACE
- Transactions, 2003
- 31. Managing Construction Industry Development in China, Deepak Bajaj, PE: Rui Zhang, AACE Transactions, 2003 32. 2003 Japanese Chemical Plant Cost Trends, Yoshimi Saito, AACE Transactions, 2004
- 33. Performance Measurement in the UK Construction Industry. Joe Martin, AACE Transactions, 2004
- 34. Construction and Corruption in Developing Regions, Enno Koehn, PE; Ranjit K. Tandoor, AACE Transactions, 2004
- 35. Cost Risk Management in West Rail Project of Hong Kong, Chen Hua; S.W. Poon; F.F. Ng, AACE Transactions, 2004
- 36. Innovative Pre-Planning for International Projects, Mark T. Chen, PE CCE, AACE Transactions, 2005 37. Construction Productivity in Developing Global Regions, Enno Koehn, PE: Sanjay A, Jagushte, AACE Transactions, 2005
- 38. Charting a Successful Global Dispute Resolution, Osmond F. Belcher, Cost Engineering Journal, 2005
- 39. A Study of Advanced Project Control System for Korean Nuclear Power Plant Construction Project, Myung Youl Yoon; Jae Hee Han, AACE Transactions, 2006
- 40. Global Experience of Benchmarking Facility Maintenance and Turnaround Contracted Services. Trudi Bissett: John G. Buchan. AACE Transactions, 2006
- 41. Construction Claims in Egypt: Contrasts and Similarities With Published Literature, Amr A.G. Hassanein; Waleed M. El Nemr, AACE Transactions, 2007
- 42. Development of an International Cost Database, Paul Martin Hewitt, AACE Transactions, 2007 43. The Russian Approach to Project Management in the Oil Industry, Thomas J. Devine, **AACE Transactions**, 2007
- 44. World-Class Project Performance with Value Improving Practices, Nick J. Lavingia, PE, AACE Transactions, 2007
- 45. Women in International Business. Women in Project Controls Task Force of AACE International. AACE Transactions. 2008
- 46. Evaluating Best Practices for Oil Sands Projects, James Peter Lozon, P. Eng.; George F. Jergeas, P. Eng., AACE Transactions, 2008

#### Chapter 05: Scheduling

- Total Float Management in CPM Project Scheduling, Dr. Suthi Pasiphol; Dr. Calin M. Popescu, PE, AACE Transactions, 1995 1.
- 2. Design to Schedule (DTOS). Dennis M. Thompson, CCC, AACE Transactions, 1995. 3. Quantifying and Apportioning Delay on Construction Projects, Lee Schumacher, PE, Cost Engineering Journal, 1995
- 4. Planning the Work - An Evolution in Progress, Pete J. Salcido; AACE International Planning and Scheduling Committee, Cost
- Engineering Journal, 1995 5.
- Concurrent Delays in Construction Litigation, Dr. David Arditi; Mark A. Robinson, PE, Cost Engineering Journal, 1995
- Activity Duration Quantification Under Uncertainty: Fuzzy Set Theory Application, Jong H. Ock, Cost Engineering Journal, 1996 6.
- 7. The Reliability of Critical Path Method (CPM) Techniques in the Analysis and Evaluation of Delay Claims, Gasan G. Kallo, Cost Engineering Journal, 1996
- An Integrated and Proactive Approach for Avoiding Delay Claims on Major Capital Projects, Lee Schumacher, PE. Cost 8. Engineering Journal, 1996
- Estimating Delay Damages, Gary H. Jentzen, PE; Robin A. Collins, PE; Dr. Gui Ponce de Leon, PE, AACE Transactions, 1996 9.
- 10. Going for the Goal, Forecasting, Joseph M. Brown, CCC, AACE Transactions, 1996
- 11. Developing an As-Built Schedule From Project Records, John R. Knoke, PE; Gary H. Jentzen, PE, AACE Transactions, 1996
- 12. A Scheduling Tool for Tunnel Construction, K.A. Pohrte; W.W. Edgerton, PE, AACE Transactions, 1996
- 13. A Contract Clause for Allocating Risks, Dr. George F. Jergeas, P.Eng.; Dr. Francis T. Hartman, P.Eng., AACE Transactions, 1996
- 14. Applying Multimedia Technology to Mitigate Claims, Liang Y. Liu; John R. Knoke, Cost Engineering Journal, 1996
- 15. Planning and Scheduling With Multiple Decision Points, Fritz Ehrenreich-Hansen, P.Eng. CCE; S.W. (Bill) Wilson, P.Eng., Cost Engineering Journal, 1997

### **Cost Engineering in the Process Industries**

### **TABLE OF CONTENTS - Page 9**

- 16. Construction Claims Preparation Under ADR, Douglas A. Findley, AACE Transactions, 1997
- 17. Resolution of Disputes: The Next Generation, James G. Zack Jr., AACE Transactions, 1997
- 18. Construction Defects Claims Analysis and Mitigation, Neil D. Opfer, CCE, AACE Transactions, 1997
- 19. The Cost of Chasing Unrealistic Project Schedules, Christopher F. Michalak, AACE Transactions, 1997
- Resource Loading in a Multiproject Environment, Jim W. Short, CCC, AACE Transactions, 1997
- 21. Practical Applications of Probabilistic Scheduling, Dr. Gui Ponce de Leon, PE; John R. Knoke, PE, AACE Transactions, 1997
- 22. Optimized Scheduling for Highway Construction, Khaled El-Rayes; Osama Moselhi, PE, AACE Transactions, 1997
- 23. Project Scheduling Under Limited Resources, Mohammed Moizuddin; Shokri Z. Selim, AACE Transactions, 1997
- 24. Simplifying Project Success Metrics, Dr. Francis T. Hartman, P.Eng.; Dr. George F. Jergeas, P.Eng., Cost Engineering Journal,
- 1997 25. The Case for Critical Path, Michael A. Hatfield; James Noel, Cost Engineering Journal, 1998
- 26. Schedule Hierarchy An Overview, Sarwar A. Samad, Cost Engineering Journal, 1998
- 27. Analyzing the Impact of Change Orders on a Schedule, Jeffrey A. Veenendaal, Cost Engineering Journal, 1998 28. Delay Damages - Some Owner Defenses, James G. Zack Jr., AACE Transactions, 1998
- 29. Effective Claims Presentations: Making Your Point, Michael R. Just, CCE; Bill Ogden, AACE Transactions, 1998
- 30. The Adequacy of Initial Scheduling Estimates, John M. Dye; Dr. Irtishad U. Ahmad, PE, AACE Transactions, 1998
- 31. Scheduling for Estimators, Robert R. George, CCC, AACE Document, 1998
- 32. Forensic Estimating and Impact Cost Determination, Robert H. Pratt, AACE Document, 1998
- 33. CPM Schedules in Construction Claims From the Contractor's Perspective, Robert B. McCullough, PE CCE, AACE Transactions, 1999
- 34. Developing Construction Claims for Arbitration: An Arbitrator's Viewpoint, Dr. Douglas D. Gransberg, PE CCE: Charles A. Joplin.
  - AACE Transactions, 1999
- 35. Interruptible or Continuous Activity Durations?, Dr. Joseph J. Orczyk, PE, AACE Transactions, 1999
- 36. Managing Schedule Changes at Rocky Flats, Todd Bilstein, AACE Transactions, 1999 37. Forensic Estimating of Project Owner Damages, Robert H. Pratt, AACE Document, 1999
- 38. Fallacy of the Contract Schedule of Values, Don L. Short II, AACE Document, 1999

44. Schedule Delay Analysis, George R. Stumpf, PE. Cost Engineering Journal, 2000

- Weather Delays and Impacts, Donald F. McDonald Jr., Cost Engineering Journal, 2000
- 40. Delay Analysis Eliminating the Smoke and Mirrors, Eric Z. Fruchtman, AACE Transactions, 2000
- 41. Behind-the-Scenes Hurdles to Settlement, Stephen O. Revay, AACE Transactions, 2000
- 42. Alternate Dispute Resolution: The Mini-Trial Approach, Michael C. Ray, AACE Transactions, 2000
- 43. Pacing Delays -- The Practical Effect, James G. Zack Jr., Cost Engineering Journal, 2000
- 45. Cost Management in Lean Manufacturing Enterprises, Robert C. Creese, AACE Transactions, 2000
- 46. Project Schedules: Simple Checks for Accuracy, David L. Freidl, PE CCE, AACE Transactions, 2003
- 47. Determining the Actual Critical Path, Ronald M. Winter, AACE Transactions, 2004
- 48. Project Planning--Then Scheduling, Edward E. Douglas III, CCC, AACE Transactions, 2004 49. Contractor's Schedule Submittal: Catch-22, Earl T. Glenwright Jr., AACE Transactions, 2004
- 50. Concurrent Delay Analysis for Litigation, Victor M. Ostrowski, PSP; Michael T. Midgette, PSP, AACE Transactions, 2005
- 51. CPM Scheduling and How the Industry Views Its Use, Patricia D. Galloway, PE, AACE Transactions, 2005
- 52. A Continuously Changing As-Planned Baseline?, John. C. Livengood; Mark I. Anderson, AACE Transactions, 2005
- 53. Retrospective As-Built Schedule Development, Anamaria I. Popescu, PE; Andrew Avalon, PE, AACE Transactions, 2005
- 54. Total Float Management for Delay Analysis, Khalid S. Al-Gahtani; Satish B. Mohan, AACE Transactions, 2005
- 55. Documenting the Schedule Basis, Edward E. Douglas III, CCC, PSP, AACE Transactions, 2005 56. Success: Use of Activity Code Structure for Project Schedule Integration and Monitoring, Gener dela Cruz, AACE Transactions,
- 57. Is Your Schedule Late at the Starting Gate?, Abhi Basu, PE, AACE Transactions, 2005

## **Cost Engineering in the Process Industries**

### **TABLE OF CONTENTS - Page 10**

- Transparent CPM, Mark C. Sanders, PE CCE, AACE Transactions, 2005
- 59. Managing Multiple Milestones, Ron Winter, PSP, AACE Transactions, 2005
- 60. Scheduling Specifications: A Lump Sum Contractor's Perspective, Martin J. Bradley, CCC, AACE Transactions, 2005
- 61. Planning and Scheduling Department: Functional Aspects, Junaid Ahcom, ICC; Ali Ali Shash, AACE Transactions, 2005
- 62. Benefits of Linear Scheduling, Gary Rock Spencer, PE; Rose Mary Lewis, AACE Transactions, 2005
- 63. Project Schedule Delay vs. Strategic Project Planning, Massimoluigi Casinelli, PE, CCE, AACE Transactions, 2005
- 64. The Benefits of Monte-Carlo Schedule Analysis, Jason Verschoor, P.Eng., AACE Transactions, 2005 65. Estimating Cost Growth From Schedule Changes: A Regression, John V. Bielecki; Edward D. White, Cost Engineering Journal,
- 66. Evaluating CPM Reliability: A Linguistic Approach, Lee J. Hobb, Cost Engineering Journal, 2006
- 67. Construction CPM Scheduling Precision Without Accuracy, Victor M. Ostrowski, PSP, AACE Transactions, 2006 68. Development and Training of the Planning and Scheduling Professional, Edward E. Douglas, III CCC PSP, AACE Transactions,
- 2006 69. The Great Negative Lag Debate, Edward E. Douglas, III CCC PSP; Timothy T. Calvey, PE PSP; Donald F. McDonald, Jr. PE CCE
- PSP; Ronald M. Winter, PSP, AACE Transactions, 2006
- 70. Schedule Analysis Indices, Gary Rock Spencer, PE; Rose Mary Lewis, PE, AACE Transactions, 2006 71. Scheduling: The Good, the Bad and the Ugly, H. Lance Stephenson, CCC, AACE Transactions, 2006
- 72. Innovative Approaches to CPM Scheduling Management, Russell P. Vakharia, CCE PSP, AACE Transactions, 2006
- 73. Scheduling Specifications for the 21st Century, Paul Levin, PSP, AACE Transactions, 2006 74. CPM Schedules - Why and How, Satinder Singh Baweia, CCE, AACE Transactions, 2006
- 75. Scheduled Overtime and Loss of Productivity: Fact or Fiction? A Business Roundtable Report. Robert Seals, PSP: Josette
- Rodriguez, Cost Engineering Journal, 2006
- 76. Scheduling Practices for Project Success, Andrew F. Griffith, PE, Cost Engineering Journal, 2006
- 77. A Schedule Success: Hartsfield-Jackson Atlanta Airport's Runway Delivered 11 Days Early and \$102 Million Under Budget, Richard Sappe, Cost Engineering Journal, 2007
- 78. Performing Forensic Delay Analyses From Deep Within the Black Tent, Thomas F. Peters, PE CFCC, AACE Transactions, 2007
- 79. Productivity Claims: Beyond 'Smoke and Mirrors', John Gerard Boyle, AACE Transactions, 2007
- 80. How Design Documents Create Claims and What to Do About It, Bryan Payne, PE CCE, AACE Transactions, 2007
- 81. How Claims Happen When Schedules Become Political An Actual Court Case Study, Michael W. Leary, PE: Craig D. Hutchison. AACE Transactions, 2007
- 82. Concurrent Schedule Delay Between Main Contractor and Subcontractor, Massimoluigi Casinelli, PE CCE; Aldo De Angelis, AACE Transactions, 2007
- 83. A Structured Approach To Least Cost Recovery Scheduling, Christopher W. Carson, PSP, AACE Transactions, 2007
- 84. Innovative Schedule Performance Measurements, Donna J. Nardella, PE PSP, AACE Transactions, 2007
- 85. Scheduling Management: Classifications vs. Levels, H. Lance Stephenson, CCC, AACE Transactions, 2007
- 86. Converting Linear Schedules to Critical Path Method Precedence, Douglas D. Gransberg, PE CCE, AACE Transactions, 2007
- 87. Scheduling Management: Schedule Basis Memorandum, H. Lance Stephenson, CCC, AACE Transactions, 2007
- 88. Schedule and Cost Risk Evaluation, Rashmi Prasad, AACE Transactions, 2007
- 89. Forensic Schedule Analysis: Example Implementation, Mark C. Sanders, PE CCE PSP, AACE Transactions, 2008
- 90. Total Float Management: Renovating a Misused and Abused Approach. Anamaria I. Popescu, PE: John Jerz, AACE Transactions.
- 2008 91. Business Rules in CPM Scheduling Software, Abhi Basu, PE PSP, AACE Transactions, 2008
- 92. Who Should Own the Float?, Ron Winter, PSP; Timothy T. Calvey, PE PSP, AACE Transactions, 2008
- 93. When is the Critical Path Not the Most Critical Path?, Murray Woolf, AACE Transactions, 2008

## **Cost Engineering in the Process Industries**

### **TABLE OF CONTENTS - Page 11**

#### **Chapter 06: Construction Activities**

- 1. Model Building Strategy for Construction Cost Overruns, Dr. Mohamed K. El-Choum, AACE Transactions, 1995
- 2. Cost-Effective Waste Minimization for Construction Managers, Hal Johnston; William R. Mincks, Cost Engineering Journal, 1995
- 3. The Port Authority of New York and New Jersey's Organizational Strategy for Recovering the World Trade Center After the February 26. 1993 Terrorist Bombina. Robert N. Harvey. Cost Engineering Journal. 1995
- 4. Applying Total Quality Management to the North American Construction Industry, Dr. R. A. McKim; H. Kiani, Cost Engineering Journal, 1995
- Journal, 1995
   How to Relate a Construction Cost Estimate to the Prevailing Bid Market for Government and Institutional Projects, Nissim Zelouf,
- CCE, Cost Engineering Journal, 1995
  6. Unique Kiel Center Arena Project, Joseph J. Diesko, Jr., Cost Engineering Journal, 1995
- 7. Construction Project Delay Analysis, Zartab Q. Zafar, PE CCE, Cost Engineering Journal, 1996
- 8. The Top Ten Lessons Learned in Construction Contracting, Dr. William W. Badger; Steven W. Gay, Cost Engineering Journal,
- Subcontracting Out Scope: According to Plan, Quentin W. Fleming: Joel M. Koppelman, AACE Transactions, 1996
- 10. Construction in an Operating Environment, David W. Derkach, CCC, AACE Transactions, 1996
- 11. Labor Productivity Modeling With Neural Networks, Dr. James E. Rowings Jr., PE CCE; Rifat Sonmez, AACE Transactions, 1996
- Construction Productivity: Continuous Improvement Is Normal, Dr. Richard E. Larew, PE CCE, AACE Transactions, 1996
   Constructability in the Design Firm, James A. Young III, CCC, AACE Transactions, 1996
- 14. Constructability, "The Stretch Version", Robert J. Geile, PE, **AACE Transactions**, 1996
- 15. Selection of Appropriate Trenchless Technologies for the Repair and Rehabilitation of Underground Infrastructure Systems, Dr. Robert A. McKim, P.Eng., **AACE Transactions**, 1996
- 16. Construction Cost Reducation: Is it Myth, Window-dressing, or an Omen of Things to Come?, Adek Apfelbaum, Cost Engineering Journal, 1996
- 17. A Spreadsheet Checklist to Analyze and Estimate Prime Contractor Overhead, Walter B. Jones, CCC, Cost Engineering Journal,
- 1996

  18. An Evaluation of Construction Crew Design Processes, Amr A. G. Hassanein; John W. Melin, Cost Engineering Journal, 1996
- 19. A New Twist on Construction Arbitration Rules, Gordon Beveridge, Cost Engineering Journal, 1996
  20. Construction Industry Safety Measures, Nancy Terrero: Janet K. Yates, Cost Engineering Journal, 1997
- 21. Construction Estimating and Bidding Strategy, Joseph A. Brown, CCE, AACE Transactions, 1997
- 22. Workhour Estimation for the Construction of Tanks, Jayant Kumar B. Shukla; P. Giridhar, AACE Transactions, 1997
- 23. Use of Statistical Control Charts in Construction. Satinder S. Baweia. CCE. AACE Transactions. 1997
- 24. Construction Documentation Used as Indicators of Delays, Hala Elnagar; Janet K. Yates, Cost Engineering Journal, 1997
- 25. Competitively-Bid Construction Contracts, Randy R. Rapp, PE, Cost Engineering Journal, 1997
- 26. Bidding Strategies for Trenchless Technologies, Robert A. McKim, Cost Engineering Journal, 1998
- 27. The Effect of Hot Weather on Construction Labor Productivity and Costs, Donn E. Hancher; Hesham A. Abd-Elkhalek, Cost Engineering Journal, 1998
- 28. The Five Commandments of Construction Project Delay Analysis, Hamed A. Al-Saggaf, Cost Engineering Journal, 1998
- 29. Are Any Construction Overtime "Studies" Reliable?, Richard E. Larew, Cost Engineering Journal, 1998
- 30. Inter-American Construction Costs. Leopoldo G. Varela: Roger J. Grant. Cost Engineering Journal, 1998
- 31. An Evolutionary Approach to the Capital Budgeting of Construction Projects, Hashem Al-Tabtabai; Alex P. Alex, Cost Engineering Journal, 1998
- 32. Construction Contracts: Shifting Risk or Generating a Claim?, Donald F. McDonald, Jr., PE CCE; John O. Evans III, AACE Transactions, 1998
- What Is a Competitive Advantage in the Construction Industry?, Alfred B. Ngowi; Pantaleo D. Rwelamila, Cost Engineering Journal, 1999

# **Cost Engineering in the Process Industries**

### **TABLE OF CONTENTS - Page 12**

- 34. Is There a Right Price in Construction Bids?, Joseph W. Wallwork, PE CCE, Cost Engineering Journal, 1999
- 35. Are Contractors, Engineers, and Architects Ready for a Crisis?, Janine Reid, Cost Engineering Journal, 1999
- 36. Construction Claims: Making It Simple, Michael Marenghi; Anthony J. Werderitsch, PE CCE, AACE Transactions, 1999
- 37. Cost Containment Estimating for Construction, Alan J. Barltrop, **AACE Transactions**, 1999
- 38. Project Options: What Is Their Value?, Robert E. Reed Jr., PE CCE, AACE Transactions, 1999
- 39. An Integrated Construction Activity Cost System, Dr. Mohamed K. El-Choum, AACE Transactions, 1999
- 40. Review of a Design-Build Option, Roger A. Stutz, CCC, AACE Transactions, 1999
- 41. Seal Coat Constructability Program, Dr. Douglas D. Gransberg, PE CCE; Dr. Sanjaya P. Senadheera; Ilker Karaca, AACE
- Transactions, 1999
  42. Decision Support System for Pipeline Route Selection. Prasanta Kumar Dev: Soumitra S. Gupta. Cost Engineering Journal. 1999
- Appraisal of Contractual Claims, Gianluca di Castri, AACE Transactions, 2000
   Effective Construction Work Packages, George Richard Gardner, AACE Transactions, 2006

#### Chapter 07: Risk Management

- 1. Construction Delay Analysis Systems, Dr. Janet K. Yates; Hisham Aoude, AACE Transactions, 1995
- 2. Managing Risk on Capital Projects, Joseph A. Lukas, PE, CCE, AACE Transactions, 1995
- 3. 240 Aerospace Cost Indexes and Escalation, Joseph A. Brown, CCE, AACE Transactions, 1995
- 1995

AACE International's Risk Management Dictionary, AACE International Risk Management Committee, Cost Engineering Journal,

- 5. Contingency Estimating for Environmental Remediation Projects, Donald Wendel, CCC, Cost Engineering Journal, 1995
- 6. Risk Management (Risk Analysis and Control), Samuel L. Shafer, ICEC Transactions, 1996
- 7. Contract Negotiations in Developing Countries and Risks Analysis, Francois Rigaud, ICEC Transactions, 1996
- 8. Risk Analysis Checklist, Robert M. Smith, ICEC Transactions, 1996
  - . Effective Risk Management for Remediation Projects, Timothy C. McManus; Robert Goltz, PE; Lisa R. Turnbaugh, AACE
- Transactions, 1996

  10. Project Capital Cost Risks and Contracting Strategies, Dr. Keith Pedwell, P.Eng.; Dr. Francis T. Hartman, P.Eng.; Dr. George F.
- Jergeas, P.Eng., AACE Transactions, 1996

  11. Risk Management Through Sensitivity Analysis, Dr. Ted G. Eschenbach, PE, AACE Transactions, 1996
- 12. 'Risk Sharing' Good Concept, Bad Name, James G. Zack Jr., Cost Engineering Journal, 1996
- 13. ...Project Risks and Risk Allocation, John A. Rutgers; H. Dean Haley, Cost Engineering Journal, 1996
- 14. A Realistic Approach To Risk, Ian B. Parr, AACE Transactions, 1997
- 15. Risk and Capital Budgeting, Reza Amirkhalili, AACE Transactions, 1997
- A Cost-Effective Maintenance Program Through Risk Analysis, Tusar Bandyopadhyay; Prasanta K. Dey; Saumitro S. Gupta, AACE Transactions, 1997
- 17. Risk Assessment and Contingency Estimating, Dr. Osama Moselhi, PE, AACE Transactions, 1997
- 18. A Risk-Based Maintenance Model for Cross-Country Pipelines, Prasanta K. Dey; Stephen O. Ogunlana; Saumitra S. Gupta; Mario T.
- Tabucanon, **Cost Engineering Journal**, 1998

  19. *Practical Risk Analysis in Scheduling*. Abhi Basu, PE, **AACE Transactions**, 1998
- 20. *Understanding Risk*, Michael W. Curran, **AACE Document**, 1998
- The Time Value of Project Change, David Chick, Cost Engineering Journal, 1999
   The Role of Risk Series: Understanding Risk, Michael W. Curran, Cost Engineering Journal, 1999
- 23. Basic Techniques for Analyzing and Presenting Cost Risk Analysis, Randal B. Lorance, PE; Robert V. Wendling, AACE
- Transactions, 1999
- 24. Techniques for Developing Cost Risk Analysis Models, Randal B. Lorance, PE; Robert V. Wendling, AACE Transactions, 1999

### **Cost Engineering in the Process Industries**

### **TABLE OF CONTENTS - Page 13**

- 25. Basic Techniques for Analyzing and Presenting Schedule Risk Analysis, Robert V. Wendling; Randal B. Lorance, PE, AACE Transactions, 1999
- 26. The Role of Risk, Michael W. Curran, AACE Document, 1999. 27. Integrating Risk Analysis With Cost Estimating Relationships, Peter Yu. AACE Document, 1999
- 28. Guidelines for Successful Risk Facilitating and Analysis, Igbal Noor, PE CCE; Thomas J. Rye, Cost Engineering Journal, 2000
- 29. Integration of Schedule and Cost Risk Models. Robert V. Wendling: Randal B. Lorance, PE. Cost Engineering Journal, 2000
- 30. Risk Management Implementation and Analysis, Sean T. Regan, CCE, AACE Transactions, 2003 31. Contingency! Who Owns and Manages It?, Peter W. Ripley, CCC, AACE Transactions, 2004
- 32. Project Risk Identification and Management, Mark W. Cohen, PE; Glen R. Palmer, AACE Transactions, 2004
- 33. Risk Assessments: Value of the Process, Christopher P. Caddell, PE; Sherri R. Crepinsek; Gerald P. Klanac, AACE Transactions, 2004
- 34. Do We Truly Understand Project Risk?, Stephen L. Cabano, AACE Transactions, 2004
- 35. Contingency Misuse and Other Risk Management Pitfalls, Igbal Noor, PE CCE; Robert L. Tichacek, PE, AACE Transactions, 2004
- Simplified Risk Assessment for Construction Clients, William J. Bender, PE. AACE Transactions, 2004 37. Risk Management on Research and Development Projects, Steven W. Wageman, CCC, AACE Transactions, 2004
- 38. Identifying Risk Transfer Traps, Sidney J. Hymes, AACE Transactions, 2005
- 39. Dispute Resolution Strategy and Decision Analysis, Jon Hoogenboom, PE; W. Stephen Dale, AACE Transactions, 2005
- 40. Contingency in Levelized Capital Cost Estimation, Geoffrey Rothwell, AACE Transactions, 2005
- 41. Managing Risk for Global Energy Projects, Nick J. Lavingia, PE, AACE Transactions, 2005
- 42. Risk Management for Pharmaceutical Project Schedules, Alexia Nalewaik, CCE, AACE Transactions, 2005
- 43. Risk Analysis In Transit Project. Jeffrey Allen: Ali Touran, PE. AACE Transactions, 2005
- 44. The Application of Risk Management in Infrastructure Projects, Rashed Ali, CCE, Cost Engineering Journal, 2005
- 45. Formalized Risk Management: Vital Tool for Project and Business Success, Peter Cook, Cost Engineering Journal, 2005
- 46. Management of Project Contingency and Allowance, Jan Terje Karlson; Jon Lereim, Cost Engineering Journal, 2005 47. Value-Based Risk Management (VBRM), Kevin M. Curran, Cost Engineering Journal, 2006
- 48. A Construction Cost Contingency Tracking System (CTS), John F. Rowe, PE, Cost Engineering Journal, 2006
- 49. Change Management for Today's Projects A Process Approach, Stephen E. Goodman, AACE Transactions, 2006
- 50. Project Risk Management Using Monte Carlo Simulation, Mohamed K. Khedr, PSP, AACE Transactions, 2006
- 51. Implementing Risk Management on Transit Mega-Projects, Shawn L. Kildare; George P. Blank, AACE Transactions, 2006
- 52. Significance of WBS in Contingency Modeling, John Gengxin Zhao, AACE Transactions, 2006
- 53. Risk Analysis and Optimization of the (Un)Balanced Bid, Jon Hoogenboom, PE; W. Stephen Dale; Craig Martell, AACE Transactions, 2006
- 54. Proactive Risk Management, Minnesh Kaliprasad, CCE, Cost Engineering Journal, 2006
- 55. How to Reduce Risk in Project Schedules and Portfolios, Sarim Khan, Cost Engineering Journal, 2007
- 56. Why Traditional Risk Management Fails in the Oil and Gas Sector: Empirical Front-Line Evidence and Effective Solutions, Brett Schroeder: Jan A. Jackson. AACE Transactions, 2007
- 57. Schedule and Cost Risk: An Integrated Part of Risk Management Process in the Ormen Lange Project, Svein Olay Aslaksen: Gudmund Vigerust, AACE Transactions, 2007
- 58. The Monte-Carlo Challenge: A Better Approach, John K. Hollmann, PE CCE, AACE Transactions, 2007
- 59. Risk Assessment For Scheduling Acceleration, Khalid S. Al-Gahtani, AACE Transactions, 2007
- 60. Handling the Truth in Risk Management, Kevin M. Curran; Michael W. Curran, Cost Engineering Journal, 2008
- 61. A Practical Application of Monte Carlo Simulation in Forecasting, James D. Whiteside II, PE, AACE Transactions, 2008
- 62. Escalation Estimating: Lessons Learned in Addressing Market Demand, John K. Hollmann, PE CCE; Larry R. Dysert, CCC, AACE Transactions, 2008

## **Cost Engineering in the Process Industries**

### **TABLE OF CONTENTS - Page 14**

#### Chapter 08: Project Controls

Journal, 1997

- 1. The Role of Project Controls, Manash K. Bagchi, AACE Transactions, 1995
- 2. Project Controls on Federal Remediation Contracts, R. Gary Stillman, PE, CCE, AACE Transactions, 1995
- Fast-Track Cost Control, James A. Young III, AACE Transactions, 1995 3.
- Subcontractor Project Controls Reporting Requirements, Dale A. Pearson, CCE, Cost Engineering Journal, 1995 4. 5. Project Controls: Cost / Schedule / Progress Management on the NASA Wind Tunnel Restoration Project, Kelvin Yu, PE, CCE, Cost
- Engineering Journal, 1996
- 6. Advances in Cost Control and Schedule Management for Commercial Construction, Rob McCullough, ICEC Transactions, 1996
- 7. The End Game - Project Demobilization and Close-Out, Edward E. (Ted) Douglas III, CCC, AACE Transactions, 1996
- 8. Cost Managing by Project Deliverables, Walter J. Strutt, PE CCE, AACE Transactions, 1996
- 9. Project Controls Within a Partnering Agreement, James E. Krebs, PE: Alan J. Epstein, CCC, AACE Transactions, 1996
- 10. Cost Forecasting Beyond the Crystal Ball, Leslie E. McMullan, AACE Transactions, 1996
- 11. Integrated Project Control and Communications Systems, Gerard J. Hart, AACE Transactions, 1996
- 12. Getting the Most From Advanced Process Control, Jim Anderson; Ton Backx; Joost Van Loon; Myke King, Cost Engineering Journal, 1996
- 13. An Estimating and Cost Control Standard for Radiography Inspection, W. A. (Tony) Halse, Cost Engineering Journal, 1997
- 14. Design Phase Cost Control, James A. Young III, CCC, AACE Transactions, 1997
- 15. Change-Order Management, Bob M. McCally, AACE Transactions, 1997
- 16. Environmental Site Project Controls, Edward E. Douglas III, CCC, AACE Transactions, 1997
- 17. Bevond Project Controls The Quality Improvement Approach, Michael G. Sypsomos, AACE Transactions, 1997
- 18. Risk Analysis for Environmental Remediation Projects: A Comprehensive Approach, James E. Diekmann, Cost Engineering
- 19. A Project Cost Control Model, Jim (Gaowu) Zhan, Cost Engineering Journal, 1998
- 20. Why Is Traditional Accounting Failing Managers?, Gary Cokins, AACE Transactions, 1998
- 21. ABC Management: Where Does It Fit In?, Michael C. Ray, PE CCE, AACE Transactions, 1998
- 22. Earned Value Programs for DOE Projects, Donald J. Cass, CCE, AACE Transactions, 1998.
- 23. RFIs Use, Abuse, Control, James G. Zack Jr., AACE Transactions, 1998
- Proiect Controls Where It Fits In. Michael C. Rav. PE CCE. AACE Transactions. 1998
- 25. Establishing a Project Controls Organization, Edward E. (Ted) Douglas III, CCC, AACE Transactions, 1999
- 26. Document Management and Project Controls, Paul D. Kuhlken, CCC, AACE Transactions, 2003
- 27. The Keys to Forecasting #3 Change Control, James E. Baar: Stephen M. Jacobson, CCC, Cost Engineering Journal, 2004
- 28. Essentials of Cost Management, Scott Cullen, AACE Transactions, 2004
- 29. Improving Cost Control for Skeptical Managers, Morris E. Fleishman, PE CCE, AACE Transactions, 2004 30. Project Controls Unplugged, Gary E. Chase; Victoria A. Flores, CCE, AACE Transactions, 2004
- 31. Does Project Control Start at Contract Award?, Stephen L. Cabano, AACE Transactions, 2005
- 32. Effective Use of Outsourced Project Controls, Christopher F. Michalak; Paul G. Williams, AACE Transactions, 2005
- 33. Analyse This! Project Controls Analysis, Nicholas J. Candela, AACE Transactions, 2005
- 34. Controlling Non-Construction Costs, Peter R. Bredehoeft, Jr., AACE Transactions, 2005
- 35. Construction Audit An Essential Project Controls Function, Alexia A. Nalewaik, CCE, AACE Transactions, 2006 36. Six Steps for Successful Change Order Management, Katherine K. Molly, CCC, Cost Engineering Journal, 2007
- 37. Project Controls: a Roadmap to a Choice Career, Nyssa-Dawn Amelinda Corria-Simpson; Bernd R. Langer; Pamela Handor, AACE Transactions, 2008

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#### Chapter 09: Applicable AACE International Recommended Practices

- 1. Total Cost Management Framework: An Integrated Approach to Portfolio, Program, and Project Management, John K. Hollmann, PE CCE CEP, Editor, AACE International, 2006
- 2. 10S-90: Cost Engineering Terminology, AACE International, AACE International Recommended Practice, 2009
- 3. 11R-88: Required Skills and Knowledge of Cost Engineering, AACE International, AACE International Recommended Practice, 2006
- 4. 14R-90: Responsibility and Required Skills for a Project Planning and Scheduling Professional, AACE International, AACE International Recommended Practice, 2006
- 5. 16R-90: Conducting Technical and Economic Evaluations: As Applied for the Process and Utility Industries, AACE International, AACE International Recommended Practice, 1991
- 6. 17R-97: Cost Estimate Classification System, AACE International, AACE International Recommended Practice, 1997
- 7. 18R-97: Cost Estimate Classification System: As Applied in Engineering, Procurement, and Construction for the Process Industries.
- AACE International, **AACE International Recommended Practice**, 2005
  8. 19R-97: Estimate Preparation Costs: As Applied for the Process Industries, AACE International, **AACE International**
- Recommended Practice, 1998
  9. 21R-98: Project Code of Accounts: As Applied in Engineering, Procurement, and Construction for the Process Industries, AACE
- International, **AACE International Recommended Practice**, 2003

  10. 22R-01: Direct Labor Productivity Measurement: As Applied in Construction and Major Maintenance Projects, AACE International,
- AACE International Recommended Practice, 2004

  11. 24R-03: Developing Activity Logic, AACE International, AACE International Recommended Practice, 2004
- 12. 25R-03: Estimating Lost Labor Productivity in Construction Claims, AACE International, AACE International Recommended Practice, 2004
- 13. 28R-03: Developing Location Factors by Factoring: As Applied in Architecture, Engineering, Procurement and Construction, AACE International, AACE International Recommended Practice, 2006

17. 36R-08: Development of Cost Estimate Plans - As Applied in Engineering, Procurement, and Construction for the Process Industries.

- 14. 29R-03: Forensic Schedule Analysis, AACE International, AACE International Recommended Practice, 2009
- 14. 257 00. 1 of official confidence in the final field in the first international recommended in the first international recommendation in the first internation in the first int
- 15. 30R-03: Implementing Project Constructability, AACE International, AACE International Recommended Practice, 2009
- 16. 34R-05: Basis of Estimate, AACE International, AACE International Recommended Practice, 2007
- AACE International, AACE International Recommended Practice, 2009
- 18. 40R-08: Contingency Estimating: General Principles, AACE International, AACE International Recommended Practice, 2008
- 41R-08: Risk Analysis and Contingency Determination Using Range Estimating, AACE International, AACE International Recommended Practice, 2008
- 20. 42R-08: Risk Analysis and Contingency Determination Using Parametric Estimating, AACE International, Parametric Parametric 2009
- Recommended Practice, 2009
  21. 43R-08: Risk Analysis and Contingency Determination Using Parametric Estimating Example Models as Applied for the Process
- Industries, AACE International, AACE International Recommended Practice, 2009
  22. 44R-08: Risk Analysis and Contingency Determination Using Expected Value, AACE International, AACE International
- 44R-08: Risk Analysis and Contingency Determination Using Expected Value, AACE International, AACE International, Recommended Practice, 2009
- 23. 53R-06: Schedule Update Review: As Applied in Engineering, Procurement, and Construction, AACE International, AACE International Recommended Practice, 2008

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