



== MONTRÉAL ==

COST MANAGEMENT AND COST ENGINEERING

AAACE International – MONTREAL SECTION
PRESENTS.....

Monday, November 30th, 2009

SPECIAL 1 DAY SEMINAR/WORKSHOP

Life Cycle Costing for Green Building Design: An Approach to Total Cost Management and Sustainability

This special one day seminar has been developed to provide insight into Life Cycle Costing from asset requisition, construction, operation, upgrade and eventual retirement and residual value. Life cycle cost analysis is a common practice in the evaluation and selection of equipment and in the capital investment decision. The format will include presentations, practical workshops and group discussions.

The objective of this workshop is to introduce ASTM and ISO Building Economics Standards and impart the skills necessary for participants to apply the Life Cycle Costing (LCC) methodology to the evaluation and analysis of capital investments, applicable for all industries. Examples used in the workshop will be for buildings, specifically in the field of energy efficiency and Green Buildings.

The seminar incorporates three progressive hands-on workshop sessions to gain experience in using the comprehensive Financial Tables provided and applying the LCC technique to the evaluation and analysis of investments. Only standard calculators required.

Seminar Outline

- ❖ ASTM and ISO Building Economics Standards
- ❖ Selection of Financial Criteria
- ❖ LCC Financial Tables - Present four Value Factors
- ❖ **Workshop A: Calculating Present Values**
- ❖ Data requirements for calculating Life Cycle Costs
- ❖ **Workshop B: Calculating Life Cycle Costs**
- ❖ Supplementary evaluation measures (4)
- ❖ **Workshop C: Calculating Supplementary Evaluation Measures**
- ❖ Sources of LCC data and software
- ❖ Integrating LCC in the design process

Documentation Provided

- ❖ A seminar manual containing all slides, workshop problems and related appendices
- ❖ Comprehensive Life Cycle Costing Financial Tables (165p)
- ❖ A summary of the NIST/DOE Life Cycle Costing Manual for the Federal Energy Management Program
- ❖ CaGBC and Greg Kats (California) report summaries on the Costs and Financial Benefits of Green Buildings

PROJECT MANAGEMENT • PLANNING AND SCHEDULING • VALUE ENGINEERING • ESTIMATING



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Life Cycle Costing for Green Building Design: An Approach to Total Cost Management and Sustainability

Instructor: Robert P. Charette, P.E., CVS, PQS

Robert Charette is an associate adjunct professor at Concordia University in Montreal. He is a member of ISO TC 59/WG4 on Life Cycle Costing and ASTM S/C E06.81 on Building Economics; he was co-chairman of the ASTM Task Group that developed the UNIFORMAT II Standard Classification of Building Elements, widely used for building design estimates and schematic phase specifications.

A past member of ASHRAE TC 1.8 on Owning and Operating Costs, he is also accredited as a Certified Value Specialist (CVS) by the Society of American Value Engineers, and as a Professional Quantity Surveyor (PQS) by the Canadian Institute of Quantity Surveyors. Mr. Charette has lectured and presented seminars on Life Cycle Costing, Energy Management, Value Engineering, Elemental Estimating, and UNIFORMAT II for Design Cost Analysis to various organizations and universities in the U.S., Canada, the UK, and France.

Date: Monday, November 30, 2009

Location: 455 René Lévesque West, Room 304A – Montreal

Registration & Breakfast: 8:30 to 9:00 am

Lunch Break: 12:00 to 1:00

Afternoon Session: 1:00 to 4:30 pm

The presentation will be in English / Questions and answers in French and English

Cost: AACEI and PMI members \$275 Students: \$125 Non-members \$325

Breakfast and lunch are included

RSVP in advance to Celina Ma

PAYMENT BY CHEQUE MADE TO THE ORDER OF AACEI MONTREAL, mailed to the attention of Les McMullan, SNC-Lavalin Inc.

455 Rene Levesque West, 7th Floor, Montréal QC H2Z 1Z3

OR CASH AT THE DOOR BEFORE THE PRESENTATION

Please confirm your presence by Friday, November 20, 2009

to Celina Ma

by fax: (514) 937-0096

by e-mail: mac@tardifmurray.com

Your Name and Company: _____

AACEI Member Student Member PMI Member Other

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