LIFE CYCLE COSTING (LCC) FOR GREEN BUILDING DESIGN

SEMINAR/WORKSHOP

DATE: **Thursday May 28th - Saskatoon**
Friday May 29th - Regina

TIME: **8:30 AM to 4:30 PM (Sign-In/Coffee 8:15 AM)**
12:00 PM Lunch will also be included

LOCATION: **Saskatoon – Kelsey Room 312.1**
Idylwyld and 33rd Street
Regina - Century Plaza 1920 Rose St

OBJECTIVE:

Introduce ASTM and ISO Building Economics Standards and impart the skills necessary to apply the LCC methodology to the evaluation and analysis of investments in buildings, specifically in the field of energy efficiency and Green Buildings.

SEMINAR OUTLINE

- ASTM and ISO Building Economics Standards
- Selection of Financial Criteria
- LCC Financial Tables - Present Value Factors (SPV, UPV - SPV*, UPV*)
- **Workshop A:** Calculating Present Values
- Data requirements for calculating Life Cycle Costs
- **Workshop B:** Calculating Life Cycle Costs
- Supplementary evaluation measures (NS, SIR, AIRR, DPB)
- **Workshop C:** Evaluation Measures
- Sources of LCC data and software
- Integrating LCC in the design process
- Report on the Costs and Benefits of Green Buildings

This <u>training seminar</u> includes three progressive workshop sessions to gain experience in using the comprehensive Financial Tables provided and in applying the LCC technique to the evaluation of building systems and energy related problems (calculations are very simple – no prerequisites - only <u>standard calculators</u> required).

DOCUMENTATION:

- **A seminar manual** with all slides, workshop problems and related appendices
- **Life Cycle Costing Financial Tables (165 pages)** – these allow the Adjusted Internal Rate of Return (AIRR) to be determined directly from tables in lieu of trial and error calculations
- A summary of the **NIST/DOE Federal Energy Management Program Life Cycle Costing Manual** that is based on ASTM Building Economics standards
- Kats and CaGBC summary reports on the **Costs and Benefits of Green Buildings**
- Answers to all workshop problems

SEMINAR LEADER:

Robert P. Charette, P.E., CVS, PQS (F), is an associate adjunct professor in the Building Engineering Faculty of Concordia University in Montreal. He is a member of the ISO TC59 Working Group on Life Cycle Costing; member of the ASTM E06.81 Sub-Committee that developed building economics standards; past co-chairman of the ASTM Task Group that initiated the UNIFORMAT II Standard Classification of Building Elements. A past member of ASHRAE TC 1.8 on Owning and Operating Costs, he is also qualified as a Certified Value Specialist (CVS) by the Society of American Value Engineers and as a Professional Quantity Surveyor (PQS-F) by the Canadian Institute of Quantity Surveyors (CIQS).

Mr. Charette has lectured and presented seminars on Life Cycle Costing, Energy Management, Value Engineering, Elemental/Assemblies Estimating, and UNIFORMAT II for Design Management to various organizations and universities in Canada, the U.S., and in Europe. These include AIA/BSA (Boston): the Harvard Green Campus Initiative (HGCI:), the Canada Green Building Council (CaGBC): the Manitoba Environmental Industries Association (MEIA): the International Initiative for a Sustainable Built Environment (iiSBE): the ASHRAE San Diego, Toronto Ottawa and Athens Chapters: the Canadian Institute of Quantity Surveyors: and the Royal Institute of Chartered Surveyors (RICS – UK).

FEES – ADD 5% GST UNLESS EXEMPT:

BEFORE MONDAY MAY 18TH:	**CAGBC-SK MEMBERS**	**$300**
	NON-MEMBERS	**$350**
AFTER MONDAY MAY 18TH:	**CAGBC-SK MEMBERS**	**$350**
	NON-MEMBERS	**$400**

NOTE: REGISTRATION DEADLINE FRIDAY MAY 22ND.

Attendee Information:

Name(s): _____Date:_____

Daytime Telephone: _____ E-mail: _____

Company Name, and Mailing Address:

_____

_____

Method of Payment:

Please check one: Bill Company ( ) Cheque included ( ) Cheque to follow ( )

Company Name: _____ Company reference number (if applicable): _____

Company Representative to be billed:_____

PLEASE MAIL, FAX or E-MAIL YOUR REGISTRATION TO:

CaGBC-SK Chapter
Attention: Charlene Doell, Administrative Coordinator
#200 – 642 Broadway Avenue
Saskatoon, SK. S7N 1A9
Phone: 306-665.0744 Fax: 306.664.2598
Email: cdoell@cagbc.org

NOTE: for a full refund, cancellations must be received by Monday May 25th

Life Cycle Costing (LCC) Seminar / Workshop Manual

Table of Contents

Appendices