

# Workshop

## *Technology, Innovation & The Human Spirit*

You are invited to another enriching Leadership Calgary workshop. This workshop will explore what we can learn about adaptive capacities and the human spirit from the history of technological innovation, ingenuity, craftsmanship and historical engineering achievements.

### WORKSHOP DETAILS:

**Date:** Saturday, April 4<sup>th</sup>, 2009

**Time:** 8:00 am to 4:30pm *(Includes driving time to the location. See detailed schedule below.)*

**Location:** Museum of Making (outside of Cochrane)  
<http://www3.museumofmaking.org/dbtw-wpd/machine.htm>

**Directions:** to follow

#### Workshop Fees\*:

- Alumni/current participant = \$75
- Guest = \$100
- "Early-bird" discount = - \$25 (if you register before March 23, 2009)

*(\*Workshop fees include site visit, course material, morning tea/coffee, lunch and afternoon snack)*

**Guest Speaker:** Ian MacGregor – *Founder of the Museum of Making*

**RSVP:** See attached registration form

#### Primary Preparation Resources [see page 3 for more information]

· "Seven Wonders of the Industrial World: How The Modern World Was Forged" BBC 7 part Documentary DVD

· "Dreams of Iron and Steel: Seven Wonders of the Modern Age, From the Building of the London Sewers to the Panama Canal" by Deborah Cadbury

#### Schedule:

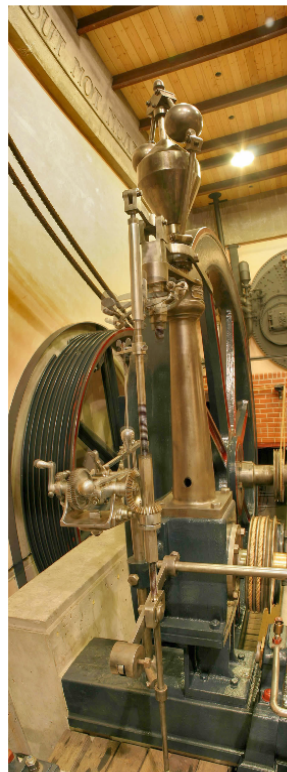
8:00am: Leave Calgary for Cochrane

9:00 – 11:30am: Visit to the Museum of Making, presentations by Ian MacGregor

11:30 – 12:45: Lunch

12:45 – 3:30pm: Workshop discussions and presentations

3:30pm: Return to Calgary



# Registration Form:

## HOW TO REGISTER:

Please complete the following details and return to Helen Shaver by March 23, 2009 to receive the early-bird discount.

## FACSIMILE/MAIL:

Fax to (403) 403-265-8981 or  
Mail to Leadership Calgary  
1170, 1202 Volunteer Way (Centre Street SE)  
Calgary, AB T2G 5A5

OR

## EMAIL:

Email Scanned form/s to  
[hshaver@volunteercalgary.ab.ca](mailto:hshaver@volunteercalgary.ab.ca)

## BOOKINGS CONFIRMATION:

Bookings will be confirmed on receipt of payment.

## CANCELLATION POLICY

Cancellations received prior to the registration deadline date will attract a \$20 administrative fee. No refund will be available for cancellation received after March 27, 2009. Cancellations must be received in writing via fax or email.

## ENQUIRIES:

(403) 231-1425

## I wish to register for the Leadership Calgary Workshop on Technology, Innovation & the Human Spirit

**Name:** \_\_\_\_\_

**Title/Position:** \_\_\_\_\_

**Organization:** \_\_\_\_\_

**Contact Phone:** \_\_\_\_\_

**Email:** \_\_\_\_\_

	Number of attendees:	Price	Early Bird discount? (-\$25)	Total
Alumni:		@ \$75		
Guests:		@ \$100		
			Total:	

## Names of additional attendees:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## Payment Options:

Payment by cheque:

Enclosed please find cheque payable to Volunteer Calgary for the amount of \$\_\_\_\_\_.

Payment by Credit Card

Please debit my credit card account with the sum of \$\_\_\_\_\_

Card Number: \_\_\_\_\_

Expiry Date: \_\_\_\_\_

Name on Card: \_\_\_\_\_

Signature: \_\_\_\_\_

## For Catering Purposes:

Are there special dietary requirements that we may need to be aware of?

\_\_\_\_\_  
\_\_\_\_\_

Or are there any foods to which you are allergic?

YES  NO

If YES, please specify:

\_\_\_\_\_

## Carpooling:

Will you be driving to Cochrane?  YES  NO

If yes, how many people can you accommodate to drive with you?

\_\_\_\_\_



# Technology, Innovation & The Human Spirit Workshop

## Primary Resources

- “Seven Wonders of the Industrial World: How The Modern World Was Forged” BBC 7 part Documentary DVD
- “Dreams of Iron and Steel: Seven Wonders of the Modern Age, From the Building of the London Sewers to the Panama Canal” by Deborah Cadbury

The book and the DVD cover the same territory, but the production values of the BBC programs are exceptional. Both sources are recommended. The book can be ordered on line from Chapters or Amazon. The DVD is available from Amazon. Short-term loan copies of the books and DVDs are available from Buffy (403-231-1425) at Volunteer Calgary.

## Workshop Preparation

Drawing on at least 3 the following examples covered in the book and documentary:

- The Great Eastern [massive iron ship]
- The Bell Rock Lighthouse
- The London Sewers
- The Brooklyn Bridge
- The Transcontinental Railroad
- The Panama Canal
- The Hoover Dam

Look for common patterns of adaptive learning in the individual and collective striving dynamics; e.g., the inquiry disciplines and levels of caring, understanding and mastery involved, access to requisite knowledge, skills and resources; recovering and learning from failures and set-backs; managing conflicts and negotiating alliances. Create a map or graphic representation of the patterns you find. Come prepared to share and discuss.

## Further suggested reading references

- “Men Machines and Modern Times” by Elting Morison, MIT Press, 1995
- “The Lever of Riches: Technological Creativity and Economic Progress” by Joel Mokyr, Oxford University Press, 1990
- “The Gifts of Athena: Historical Origins of the Knowledge Economy” by Joel Mokyr; Princeton University Press, 2004 [advanced reading]
- “The Existential Pleasures of Engineering” by Samuel Florman, St. Martin’s Press, 1976
- “The Civilized Engineer” by Samuel C. Florman, St. Martin’s Press. New York, 1987
- “Engineering and the Mind’s Eye” by Eugene Ferguson, MIT Press, 1992
- “Up the Infinite Corridor; MIT and the Technical Imagination” by Fred Hapgood. Addison-Wesley, 1993
- “To Engineer is Human: The role of Failure in Successful Design” by Henry Petroski; St. Martin’s Press, 1982