



BCIT's Experience with its Brownfield Redevelopment Program

**Canadian Brownfields 2009
Going For Gold Conference
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Program Head

Brownfield Redevelopment Program

Sustainable Energy Management Program

INTRODUCTION TO BCIT



The British Columbia Institute of Technology (BCIT) is British Columbia's largest post-secondary institution with more than 48,000 students and approximately 2,100 faculty and staff.

- 16,000 full time students
- 32,000 part time students

BCIT provides training, engages in applied research and development, and participates in technology transfer domestically and internationally.



SCHOOL OF CONSTRUCTION AND THE ENVIRONMENT

...concerned with the natural environment, the built environment and the relationship between them...



What does a forester know about Brownfield Redevelopment?





The Challenge - Started with a phone call



The Proposal

- Multi institutional
 - BCIT to partner with another post secondary institution in the delivery of the curriculum
 - UBC Continuing Studies
- Timing
 - Courses ready to go by January 2009
 - All courses delivered by June 30 2009



THE UNIVERSITY OF BRITISH COLUMBIA
Continuing Studies

The Concept

- The goal of the Brownfield Redevelopment Program was to provide current practitioners and support professionals in the brownfield redevelopment industry and those interested in entering the field a well rounded basic education in the various disciplines involved in the industry, including: land development, real estate, planning, environmental, legal and finance.

How do you start in the creation of a Brownfield Redevelopment program?

- *Bring together the Subject Matter Experts*
 - *Scott Bailey, Manager, Brownfields and Program Development, Ministry of Agriculture and Lands*
 - *Jeff Fisher, Deputy Executive Director, Urban Development Institute*
 - *Kim Fowler, Senior Consultant, Pottinger Gaherty Environmental Consultants*
 - *Ray Koenig, Faculty, Environmental Engineering Technology, BCIT SOCE*

- *Subject Matter Experts cont'd*
 - *Don Livingstone, President/Environmental Engineer, Teal Solutions*
 - *Tim Pringle, Executive Director, Real Estate Foundation*
 - *Elizabeth Rowbotham, Barrister & Solicitor, Ministry of Attorney General*
 - *Alan McCammon, Manager, Brownfields & Remediation Assurance, Ministry of Environment*
 - *BCIT and UBC Academics*

What would you expect graduates of these courses to know?



What would you expect graduates of these courses to know?

- How to identify a brownfield site and its' historical context and the reasons why it's a brownfield site
- How to develop a brownfield site
- Learner will be able to integrate and coordinate consultants on behalf of the developer of a brownfield site
- Learner will understand brownfield opportunities

- Understanding the lifecycle of managing a brownfield site
- Learner will be able to reduce the risk and uncertainty of brownfields
- Learner will be able to describe the economics of changing a site from non-useful to useful (do a proforma for a site)
- Learner will be able to the communicate real and perceived risks associated with brownfield development (economics, fear, liability, health, regulatory compliance)

- Understand strategies for navigating barriers and capitalizing on redevelopment opportunities
- Understanding barriers and the opportunities they present
- Awareness of impact of future policies relative to the local economy and within the regulatory, community, and policy context
- How to undertake community consultation and involvement
- Be able to link brownfield development to sustainability principles

The Result - Five courses

- Introduction to Brownfield Redevelopment
 - BCIT
- Planning and Environment
 - BCIT / UBC CS
- Land Development and Real Estate
 - UBC CS
- Legal and Finance
 - UBC CS
- Technical and Environmental Strategies
 - BCIT

Our course developers / instructors

- Introduction to Brownfield Redevelopment
 - Michelle Mahovlich
- Planning and Environment
 - Kim Fowler / Michelle Mahovlich
- Land Development and Real Estate
 - Kim Fowler / Geoff Burgess
- Legal and Finance
 - Don Lidstone
- Technical and Environmental Strategies
 - Michelle Mahovlich

Our students

- Multi Discipline
 - Architects
 - Planners
 - Professional Engineers
 - Real Estate Professionals
 - Environmental Consultants / Coordinators
 - Senior Environmental Scientist
 - Professional Geologist
 - CSAP
 - Development Manager

Our students

- Wide variety of experience
 - None to 25 years

- Employers
 - Federal
 - (Provincial)
 - Municipal
 - Self employed
 - Consulting Companies
 - Misc employers

Our students

- Missing
 - Those from the legal and finance communities

Comments from the cohort

- Excellent case studies
- Instructors had extensive depth of knowledge on topics
- Real world, illustrative examples
- Understanding of how complex the process is
- Great group exercises
- Lots of time for discussion and questions and answers

Students Wish List

- Field Trips
- More time on case studies
- More hands on (exercises, homework)
- Additional reading materials for reference

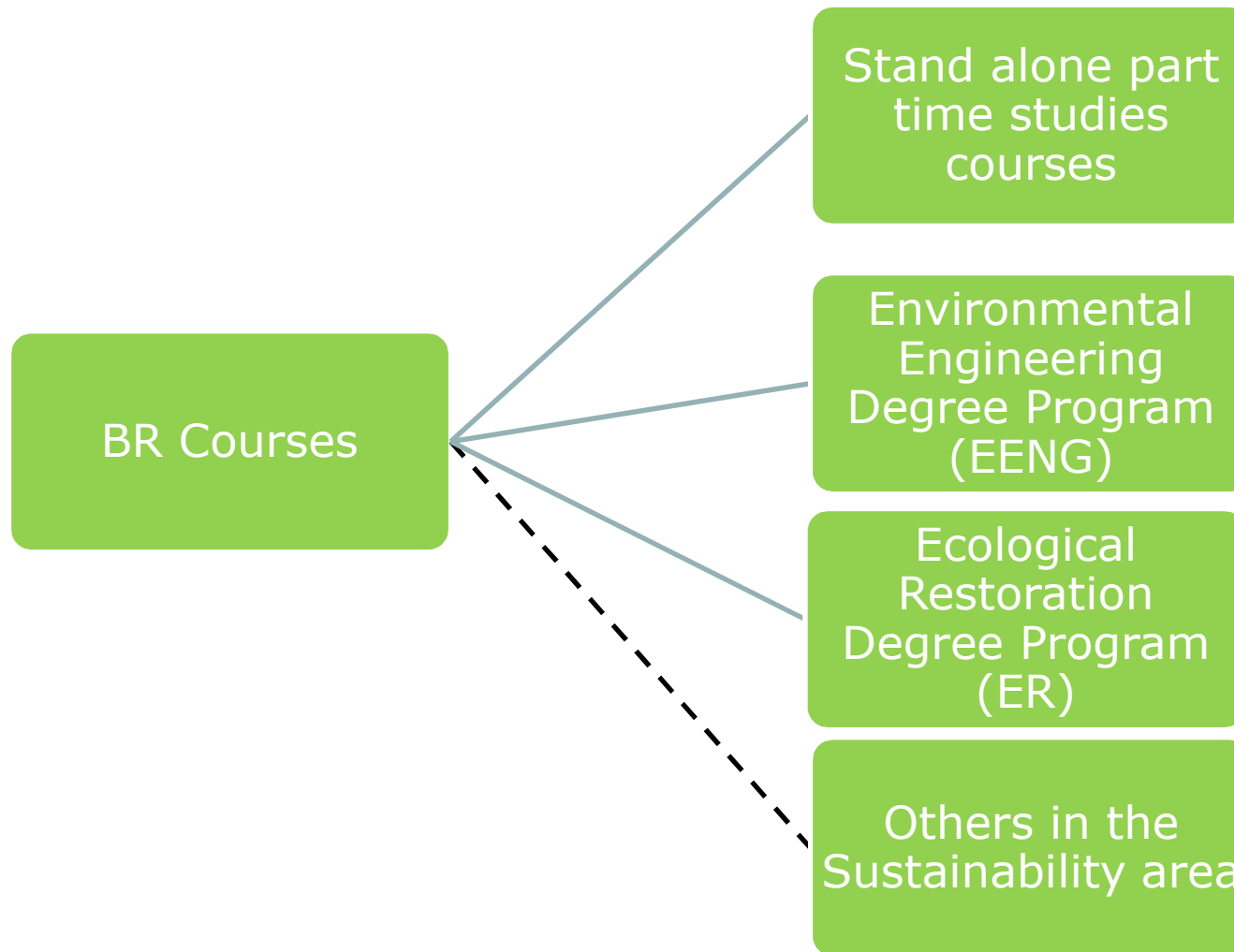
Next offering

- Plans for the next offering of the courses are in the works, starting Dec 2009
- Applications will be accepted soon
- Always looking for those with Brownfield experience to share with the students

Future?

- Access to others outside the Metro Vancouver area
 - Investigating putting some of the course materials on-line.
 - Delivery in other centers in the province
 - Webinar
 - Other?

How do these courses integrate within other BCIT programs?



Thanks

- Ministry of Agriculture and Lands (MAL)
- Ministry of Advanced Education and Labour Market Development (ALMD)
- UBC Continuing Studies colleagues
- Organizing Committee for the invitation to speak

- My Boss for the phone call

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Booth number 107

<http://commons.bcit.ca/brownfield>

