

"We forget that  
the water cycle and  
the life cycle  
are one."

- Jacques  
Cousteau



# 2012 Annual Report



[alidp.org](http://alidp.org)

promoting land development practices  
for clean, abundant water

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625 - 25th Avenue SW, Calgary, Alberta T2G 4K8

Trumpeter Subdivision, Big Lake, AB RAIN GARDEN  
Photo: Bert van Duin

# Board of Directors 2012-13

**President** James Borrow, B.Sc. Horticulture  
City of Calgary Parks

**Vice-President** David Seeliger, P.Eng.  
MPE Engineering Ltd.

**Secretary** Xiangfei Li, Ph.D., P.Eng.  
City of Edmonton Drainage Services

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Clark Ecoscience and Sustainability

**Director** Asif Aslam, M.Eng., P.Eng.  
AMEC

**Director** Roy Ermter, P.Eng.  
Retired, Town of Coaldale

**Director** John Helder  
Retired, City of Edmonton Parks

**Director** Katelyn Inlow, BLA, MES  
Riparia

**Director** Rene Letourneau, B.Sc., P.Eng.  
City of Calgary Water Resources

When the Alberta Low Impact Development Partnership gathered in Edmonton in November of 2007 with the intention to formalize as a Society, no one knew where the organization would be five years later. Hindsight is now 20/20, and we are delighted to share with you our progress.

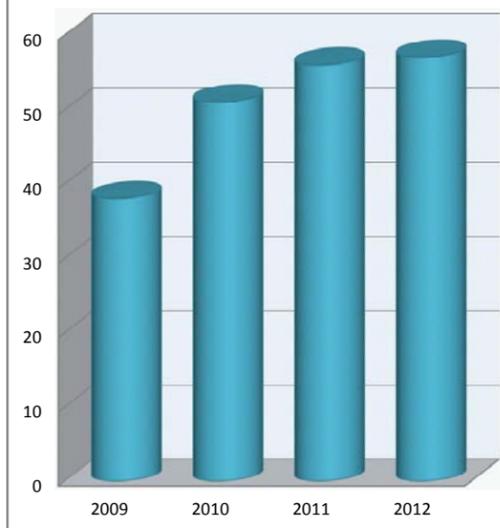
At the 2012 AGM, after eight years of service, President Bert van Duin handed the leadership reins to a newly expanded board of nine directors. At the same event, Leta van Duin was formally recognized as the Executive Director. With seven new directors acclaimed, the latter half of 2012 was a time for all to gain familiarity with the organization and each other. Bert now serves heavily in other aspects.

Confirming the ALIDP's strength in composing meaningful events, we were selected by Canada Mortgage and Housing Corporation (CMHC) to carry out a stormwater conference for Western Canada. CMHC's support allowed us to gather the top talent in Canada and the northern U.S. for two days of sharing, resulting in increased thoughts of international cold-climate focus moving to Alberta in the future.

The ALIDP's credibility was also reinforced by being selected to represent urban non-profits on the Steering Committee of the Bow Basin Phosphorus Management Plan and to lead its urban non-point-source task team. Contributing to this pilot project became a fairly significant undertaking for several of our partners, with the benefit of opening dialog with Alberta Environment and Sustainable Resource Development and the rural sector.

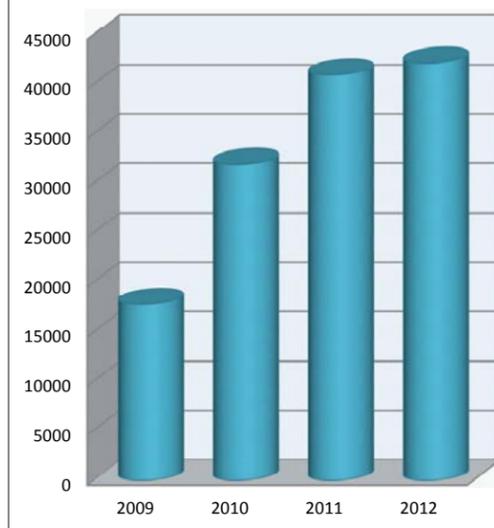
With the support of our partners, we look forward in 2013 to getting a revamped website up, streamlining member services, obtaining grants for research, and continuing to seek the best vehicles to get knowledge to our community of practice. Your continued support is vital as we juggle opportunities and priorities. Five years in, we are not 'new' and we are not 'there' yet, but signs are good that we are on our way.

**membership count**

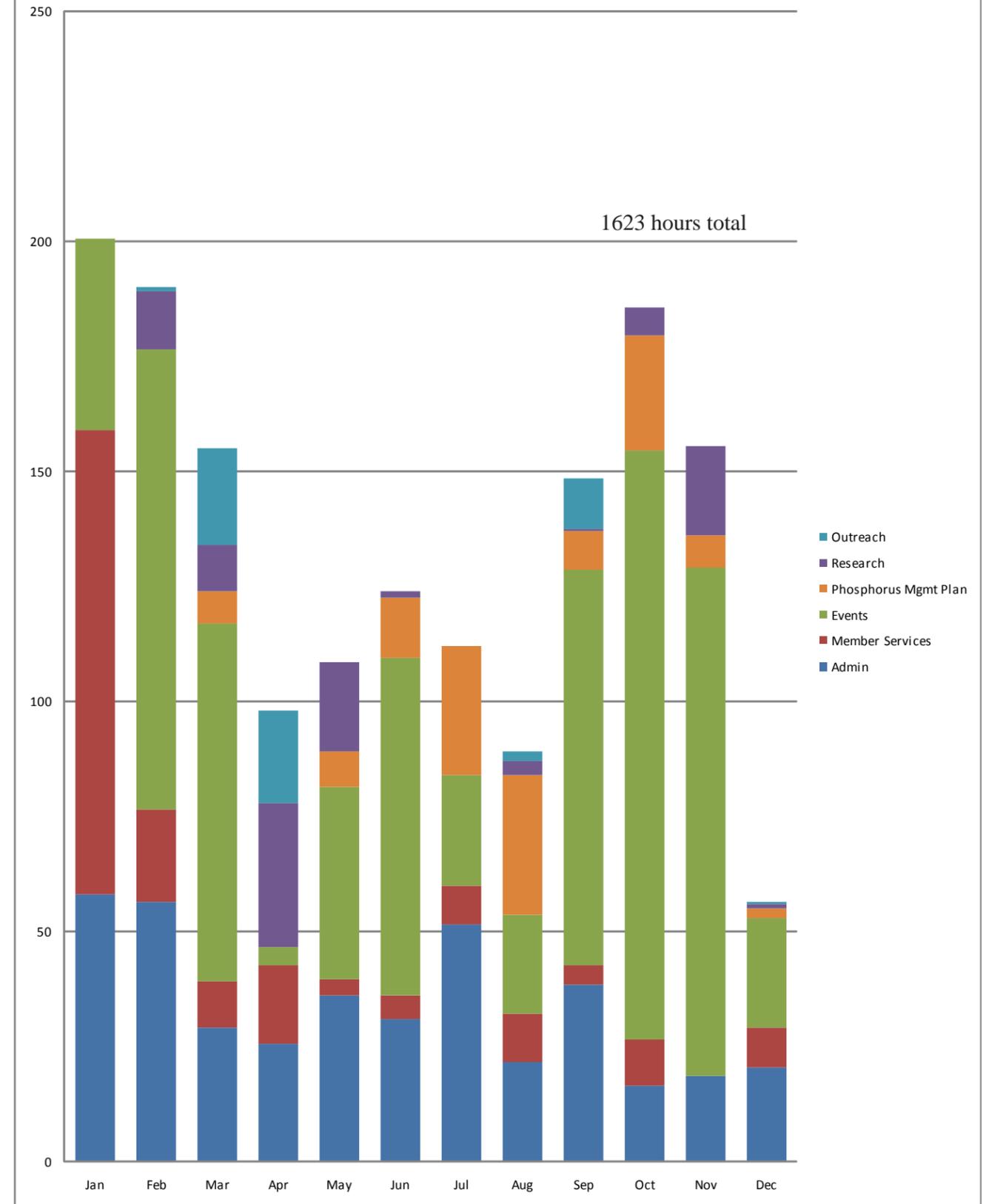


**membership fees\***

\* after water balance model dues subtracted (2009, 10).



**Executive Director Hours - 2012**



# more 2012 numbers

## 7 Third-Party WEBINARS

Dissolved pollutants  
 Stormwater BMPs: What works, what doesn't and what about maintenance?  
 Cold weather stormwater BMPs  
 Get the Dirt on Stormwater  
 Effective LID stormwater reduction  
 Impact of permeable pavement on design and construction performance  
 Permeable pavement case studies

## 6 PRESENTATIONS

Landscape and Nursery Trades Alberta Annual Conference, Banff  
 Alberta Development Officers Annual Conference, Drumheller  
 Alberta Native Plant Council Annual Conference, Edmonton  
 Cochrane Environmental Action Committee, Cochrane  
 Canadian Water Resources Association World Water Day, Calgary  
 Alberta Envirothon, high-school competition, 2012 theme 'non-point source pollution and LID' - address to students, Long Lake (near Athabasca)



Photo: Claudette Lacombe

## 4 EVENTS BY OTHERS

Canadian Water Resources Association Rain Garden Lunch 'n' Learn  
 Calgary River Valleys Riparian Forum; Biodiversity Forum  
 Alberta Water Council Riparian Setbacks Consultation

## 2 PROJECTS

Bow Basin Phosphorus Management Plan  
 Olds College BMP Research

## 1 REGIONAL EVENT

Thanks Lucy and the gang in Grande Prairie. Two days of everything you ever wanted to know about stormwater!



# Our 2012 Partners



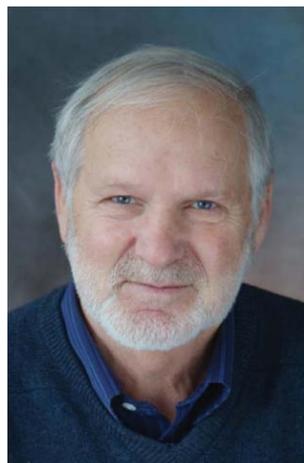
“Building our way out of this with Gray Infrastructure alone will not be possible. Smaller, decentralized, less expensive and lower energy intensive utilities like Green Infrastructure will not be a luxury but a necessity.

Peter MacDonagh, Kestrel Design Group



- LID9-SCP: Design Principles for Source Control Practices: A Sneak Peak
- LID8-GSU: Green Solutions for Ultra-urban Areas
- LID6-DES: Low Impact Development: Detailed Design Example
- LID7-PCS: Water Quality & Low Impact Development Design using PCSWMM

184  trained



The City of Calgary and the Alberta Low Impact Development Partnership proudly present the annual:

**Erosion and Sediment Control Low Impact Development and Stormwater Management Courses**

March 12 to 16, 2012

 **Designing for Tomorrow**

**ALIDP members:**

Receive \$25 each off of the price of courses beginning with the code prefix "LID". Qualifying courses are highlighted on the calendar at the back of this package.

To register, call 403.268.3800  
For more info visit [calgary.ca/wqs](http://calgary.ca/wqs)

Carriage House Inn ← new venue  
Calgary, Alberta

Photo: Claudette Lacombe



- |  |                                    |
|--|------------------------------------|
| Juncus balticus                          | Arctic Rush                        |
| Carex atherodes                          | Awned Sedge                        |
| Eleocharis palustris                     | Creeping Spike Rush                |
| Agropyron smithii                        | Western Wheatgrass                 |
| Agropyron subsecundum                    | Awned Wheatgrass                   |
| Puccinellia nuttallii                    | Alkali Grass                       |
| Poa palustris                            | Fowl Bluegrass                     |
| Deschampsia caespitosa                   | Turfed Hairgrass                   |
| Glyceria striata                         | Fowl Manna Grass                   |
| Stipa viridula                           | Green Needlegrass                  |
| Calamogrostis acutiflora 'Karl Foerster' | Feather Reed Grass 'Karl Foerster' |
| Iris versicolor                          | Blue Flag Iris                     |
| Eupatorium p. maculatum                  | Spotted Joe Pye                    |
| Daylily                                  | Daylily                            |
| Rosa acicularis/woodsii                  | Prickly/Wood's Rose                |
| Betula pumila                            | Dwarf Birch                        |
| Symphoricarpos albus                     | Snowberry                          |
| Physocarpus opulifolius 'Dart's Gold'    | Dart's Gold Ninebark               |
| Cornus sericea 'Farrow'                  | Arctic Fire Dogwood                |
| Ribes aureum                             | Golden Currant                     |
| Viburnum trilobum 'Compactum'            | Compact High Bush Cranberry        |
| Aronia melanocarpa 'Autumn Magic'        | Autumn Magic Black Chokeberry      |
| Ribes oxycanthoides                      | Gooseberry                         |
| Salix candida                            | Hoary Willow                       |

SOME PLANTS WORTH CONSIDERING for BIOFILTERS

Show us your **SPONGE**

In 2012 we created a promotional item to convey the concept that “spongy soil sucks much more”. Crafted of biodegradable cellulose, this amusing and functional prop is wafer-thin when dry but expands to about a cm thick when wet. Great for school and community outreach programs and events. Like a certain travelling gnome, we’d love it if you would send us a photo of your sponge in a setting where deep, absorbent soil is at work or where the message of the importance of such soil has been shared.



# Vegetation for Bioretention Roundtable

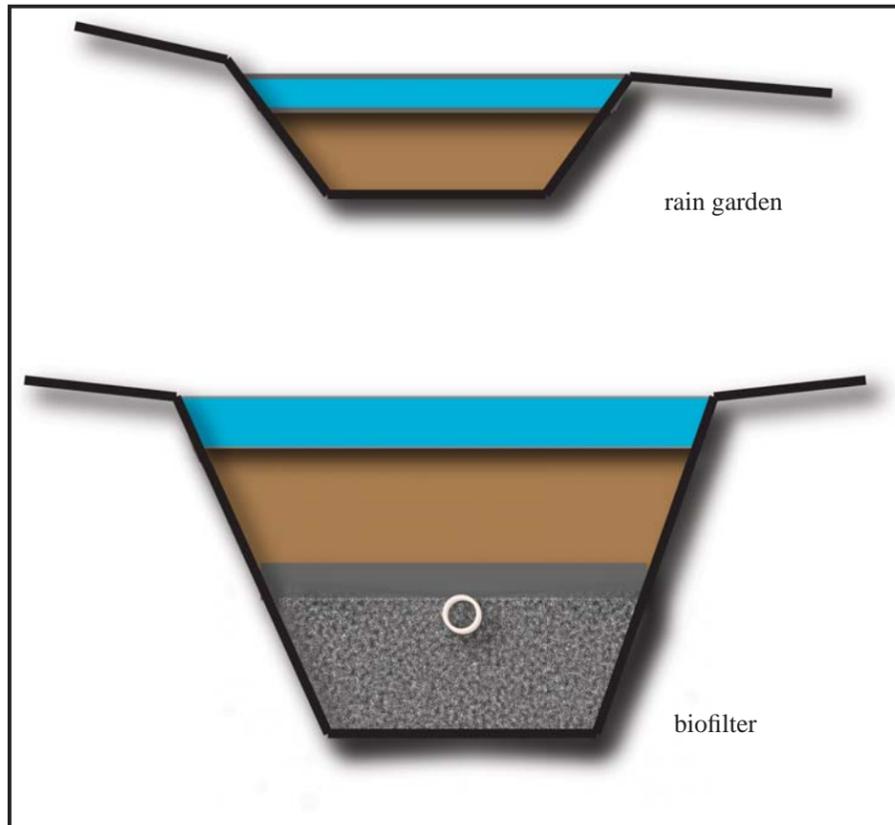
In the Calgary area we receive about 400 mm of precipitation per year, on average. When we divert, say, 300 mm runoff per year from a roof into the landscaped area around a building, this landscaped area must accommodate about  $400 + 300 = 700$  mm of moisture if the roof and landscaped area have the same footprint. This is the 'rain garden' end of the scale. In the case of biofiltration, we have this idea that we can increase this ratio to maybe 20:1, where a biofiltration area would be exposed to  $(20 \times 300) + 400 = 6,400$  mm of moisture. A typical soil would become a wetland under these conditions, and appropriate plants would take over. However, biofilters have increased permeability so that moisture can percolate through them, achieved by adding a lot of sand to the soil mix. An underdrain is normally added as well to further enhance drainage.



20  brainstormed

This presents a particular challenge to choosing vegetation in our semi-arid climate. What plants can handle this level of moisture fluctuation? What about the added challenges of winter sanding and salting operations? What works for natural areas versus manicured community areas? Will biofilters need to be irrigated? What sort of mulch is best?

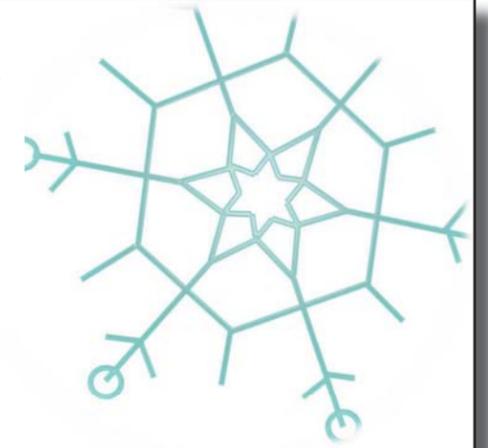
What started as a list of 100 candidate plants quickly grew to 300...and then shrunk a little. This day's discussion informed three things: a master list of candidate plants; suggestions for best practices for Calgary's LID vegetative practices module of standards, specifications and guidelines; and candidate plants for research at Olds College.



135  informed



November 6 and 7, 2012  
Edmonton Hotel and Convention Centre  
\$100 per day Bursaries available  
Register at [alidp.org](http://alidp.org)



## Crafting Water-Sensitive Communities in Cold Climates

Showcasing environmental performance at the neighbourhood scale, integrating the themes of energy, water, land-use/housing, transportation, natural environment and financial viability.

Featuring more than a dozen speakers and projects bringing local and global perspectives!  
Case Studies | Reuse | Comparative LID | Approvals in an Era of Innovation | Global Implementation

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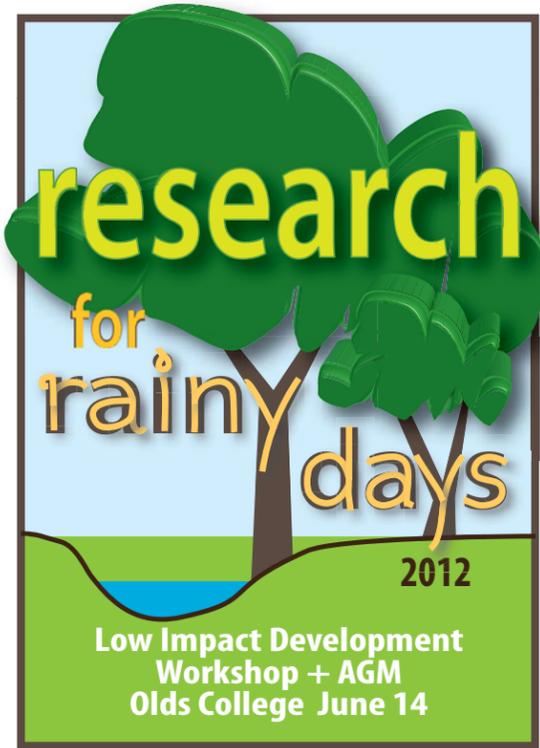
Proudly presented by



“Think BIG Start SMALL Move FAST”



  
**OLDS COLLEGE**  
 100 years  
 1913-2013



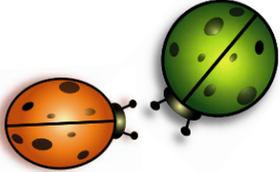
**research**  
 for  
**rainy days**  
 2012  
 Low Impact Development  
 Workshop + AGM  
 Olds College June 14

  
**ALIDP**  
 Alberta Low Impact Development Partnership

- BANDS/  
BBQ/  
NETWORKING**
- SOILS & PLANTS  
FOR LID  
PROFESSIONALS**
- BIORETENTION  
AREA PLANTING  
(TENTATIVE)**
- HOP ON/  
HOP OFF  
STATIONS**
- EXPO**

**THE BIG PICTURE** When land is urbanized in the usual way, runoff is treated as a nuisance rather than a resource. The result is pollution of our waterways, changes to the shape and size of streams, more downstream flooding, and less groundwater recharge. **LOW IMPACT DEVELOPMENT (LID)** is an evolved approach to runoff management that can mitigate these impacts to our precious water resources. **THE ALIDP** is a non-profit society seeking and promoting LID solutions that are appropriate for the northern prairies.

<http://alidp.org>

81   
**networked**



AGM photos: Pam Duncan

