



Grand River  
Conservation  
Authority



The Grand:  
A Canadian  
Heritage River

## INSIDE

### Features

Rio Grande 1

### Milestones

Clean Water Act 3

### Look Who's Taking Action

Schoolyard makeover contest in Waterloo 3

Trees for Peel 4

### What's Happening

Award nomination 5

Water professionals and students at U of G 5

Butterflies not so delicate 5

### Now Available

New driving tours 6

### Do It Yourself

Think green to keep it clean 7

Did You Know 8

Calendar 8

### Cover photo

*Two top officials from Malargüe Argentina, public works commissioner Enrique Arturo Sole and Mayor Raul Rodriguez visited the Grand River in April.*



## 'Rio Grande' shares secrets with Argentine visitors

By Janet Baine  
GRCA Communications Specialist

**M**artin Neumann points to the "Rio Grande" of Ontario as he drives to the Burford tree nursery with three visitors from Argentina.

They nod, understanding that this is the river they have come to learn about. Neumann, the GRCA's supervisor of terrestrial resources, has visited Argentina a couple of times and is at the hub of the GRCA's twinning agreement with the San Roque Lake watershed in north central Argentina. The visitors were here in April for a jam-packed week on the Grand.

The magnetism of the Grand is strongest for Andres Hamilton Joseph, who led the group. He first came with a forester to tour Ontario in 1989, courtesy of the Canadian International Development Agency, to learn about agroforestry, a land use system that incorporates trees into farming for environmental, economic and social goals.

The influential man soon opted to look at larg-

er issues and now heads a non-governmental organization called Los Algarrobos. Dedicated to improving the quality of life of people in the poorer provinces of Argentina near the Andes Mountains, Los Algarrobos is a leader in South America. Among other initiatives, it is teaching 70,000 educators about environmental education with an emphasis on sustainability.

Joseph is intrigued by the decision-making process at the GRCA, where 26 people representing 34 municipalities make decisions that impact the entire watershed. They encourage their own communities to improve water services so that those downstream will have enough clean water.

GRCA board meetings can appear mundane, but a meeting is always a key component of a visit for the Argentinians. For the past two years, Joseph has brought a mayor and an influential person from a municipality within his watershed, and he plans to do the same next year. Indeed, the mayor of Malargüe, Raul Rodriguez, who was here in April, told the GRCA board that he plans to adopt water conservation measures he

learned about here.

“We intend to replicate some of the activities that you do here,” he said, speaking through a translator. The challenges are different in each watershed, but he expects his municipality to have less water as a result of global warming, so water conservation programs will be especially beneficial.

When he spoke at the same meeting, Joseph was touched. He said Canada is blessed with an abundance of two things: water and warm-hearted people. The magnetism moves between Joseph, his Argentine colleagues and the staff at the GRCA, who learn to appreciate each other’s challenges.

The Grand River and San Roque Lake watersheds officially became twinned in Brisbane Australia in 2004 at the International River Symposium. This organization awarded the GRCA the prestigious Thiess International Riverprize in 2000. Both watersheds are nationally significant and leaders in their regions. The GRCA plays a mentoring role and several exchanges have taken place, all of which have been funded by third parties and not by the GRCA. Last year AU\$50,000 was awarded by the International River Foundation for the twinning.

San Roque Lake is the source of drinking water for Cordoba, Argentina’s second largest city with 1.3 million people. The lake is fed by rivers draining an area of 1,200 square km and has 250,000 residents, but the population balloons to a million during tourist season. Only a third the size of the Grand River watershed, San Roque has high demands on it. Tourism and intensive agriculture have taken a toll, resulting in deforestation, soil erosion, sedimentation of the streams and reservoirs and pollution from septic systems.

While the twinning agreement is relatively new, it has led to more technical collaboration, staff development and sharing of watershed management techniques, with information and expertise flowing both ways. GRCA staff mem-



*Left: Retired assistant GRCA CAO Tony Smith in Argentina; (below) Mayor Raul Rodriguez explains how seedlings are planted in Argentina during a tour of Burford Nursery; (bottom left) Andres Hamilton Joseph, Enrique Arturo Soler and Mayor Rodriguez tour the waste treatment plant in Guelph.*



bers have brought enthusiasm to the partnership — some have paid their own way to Argentina and spent part of their vacation providing expertise. In Canada they’ve shared their homes with visitors and attended lunchtime Spanish classes at their own expense.

The friendly banter between Neumann and Joseph is testament to the friendship that has developed over the years. Last year Neumann spoke to an international audience at a conference in Argentina organized by Los Algarrobos. The conference, entitled Forested Landscape Restoration, was held in Cordoba and Neumann spent several days consulting afterwards.

“A lot of GRCA staff members are surprised that a basic message from us that we take for granted in our working life can be a strong catalyst for something happening in another country,” Neumann said. An example is that Argentina now has four model forests which are examples of sustainable forest management, because Neumann con-

nected them with this Canadian-led international program several years ago.

The GRCA is a leading practitioner of watershed management and Poland, Brazil and China have also benefited from the GRCA’s expertise. The partnership with the San Roque watershed has a multiplier effect because Joseph has a network of 40 associates throughout Argentina who work with him, Neumann said.

Mexicans who heard about Neumann’s expertise have offered to pay his way to Argentina to speak at this year’s conference, provided he stops in Mexico to advise them for a couple days.

“We are not heading towards twinning with Mexico,” explained Neumann, who has high expectations of his Argentine partner. “I am hoping that by twinning with San Roque, which has a strong network across the country, the watersheds there can support each other. In a few years, San Roque could win the Riverprize (now at \$500,000), and they will then have the funding for international outreach.

“This twinning could have a meaningful impact not only on this part of Argentina, but move beyond to other places. There is a synergy that is independent of our involvement.”



## MILESTONES

Milestones are progress or products of *The Grand Strategy* Joint Work Plan.

### Clean Water Act update and e-news

An electronic newsletter and a website have been launched to provide residents of the Grand River watershed with information about the new Ontario Clean Water Act and drinking water source protection.

The first edition of the electronic newsletter was released in April and it is available on [www.sourcewater.ca](http://www.sourcewater.ca) in the "What's New" section.

The website provides background information on the Clean Water Act and its implementation in an area known as the Lake Erie Source Protection Region. The region includes the watershed areas of the Grand River, Long Point Region, Catfish Creek and Kettle Creek conservation authorities.

The newsletter will report on the work being done to protect the sources of municipal drinking water in the four conservation authority areas.

Information on how to subscribe to the newsletter is available on the website.

The Clean Water Act was passed by the Ontario legislature in October in response to recommendations of the public inquiry into the Walkerton tainted water tragedy in 2000.

The Clean Water Act establishes a system for protecting the sources of municipal drinking water, including municipal wells and surface water intakes in rivers and lakes. It calls for development of a source protection plan in each watershed in Ontario outlining the steps needed to protect those drinking water sources from becoming contaminated.

The planning work will be overseen

by a Source Protection Committee which will be made up of representatives of municipalities, farmers, businesses, landowners and others.

The steps necessary to create this committee are outlined in the draft version of regulations which have been released by the provincial government and are posted on the Environmental Registry at [www.ebr.gov.on.ca](http://www.ebr.gov.on.ca).



## LOOK WHO'S TAKING ACTION

### Waterloo schoolyard 'makeover' contest

By Adam Hannon  
GRCA Communications Intern

By this time next year, a lucky schoolyard in Waterloo Region will have undergone an "extreme makeover" worth \$15,000, thanks to a contest being organized by Evergreen school ground greening consultant Dennis Wendland.

"It's our version of an ugly school-

yard contest," he says. "Basically a downtrodden yard with no trees that is in rough shape."

Schools will be invited to apply once the funding is in place. "The Extreme Makeover: School Ground Edition" will add shade trees and shrubs to the schoolyard, as well as natural seating such as rocks and logs, play equipment and garden areas.

In order to qualify for the transformation, the school needs to assemble a committee of at least three people — the principal, a teacher and a parent. Getting these three groups together is essential, because it shows their interest in the program and helps make the greening process faster and more efficient, Wendland says.

The process will be complete by fall 2007 or spring 2008, depending on how quickly the winning school's committee wishes to proceed through a series of five organizational meetings.

Evergreen is a charity which has



Dennis Wendland



St. Anne School in Cambridge got a "mini-makeover" in April that included several trees and large rocks. This took place thanks to the contributions of several organizations.  
Photo by Adam Hannon

helped people create and sustain healthy and natural outdoor spaces across Canada since 1991.

Wendland, a retired teacher with experience in outdoor education, has helped raise about \$600,000 for schoolyard greening projects at the public and Catholic school boards over the past five years. Nearly three dozen schools in the region have raised funds and improved their outdoor space. This one will have the funds provided, thanks to sponsors and fundraising support that Wendland is still lining up. He already has some in-kind sponsors of trees, mulch and rocks, but needs more in-kind sponsors as well as some funds in place.

“It makes a big difference for schools. A school ground design that worked 60 years ago doesn’t address the changing needs of today,” he says. Since the end of the Second World War, open tarmac and turf schoolyard designs were used, but these don’t meet the needs of all children now. About 20 per cent of elementary students are “passive players” who prefer to walk, talk or play a game of chess on their recess, so the play equipment and open spaces on most schoolyards don’t meet their needs.

Many schoolyards don’t provide shade to protect children from the sun’s harmful rays. The average child spends 10 to 20 per cent of the day outside at the time of day when ultra violet radiation is strongest, increasing the child’s chance of developing skin cancer later in life.

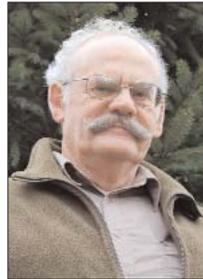
Green schoolyards are safer and more comfortable for students, because the trees and greenery provide protection from the sun. Spending time in a green setting is also believed to reduce stress and lower blood pressure rates, as well as help children focus, especially when they have Attention Deficit and Hyperactivity Disorder.

For more information on this contest, contact Dennis Wendland by calling him at (519) 570-0300 ext. 4508, or e-mail him at [dennis\\_wendland@wrdsb.on.ca](mailto:dennis_wendland@wrdsb.on.ca).

## Trees for Peel expands to all of Mapleton Township

By Janet Baine  
GRCA Communications Specialist

The successful Trees for Peel program received a 2006 Watershed Award from the GRCA and now this program is being replaced by a bigger



Paul Day

organization that will see three to four million trees planted in a larger area.

These Watershed Awards are given out annually by the GRCA to organizations and individuals making an outstanding contribution to conservation through environmental work.

When a history book about Peel became an overwhelming financial success and netted \$35,000 in sales, the project trustees (Enid Whale, Ruth Grose, Carl Isreal, Carl Hall, and Paul Day) decided to use that money to leave a legacy for the future by subsidizing tree planting for farmers.

Flat and windswept, Peel has some of

the most agriculturally-intensive farmland in the province. Tree cover there is very low, averaging only nine per cent, or as low as three per cent in some areas — a long way from the 30 per cent tree cover recommended by Environment Canada.

“The community of Mapleton has been shortchanged, both in appropriate tree cover and also information based on science that found it pays to grow trees in strategic places,” says Paul Day, a resident of the area who has planted trees on his property over many years. A study found that lack of tree cover could be costing local farmers as much as \$1 million a year because of lower crop yields and high energy costs.

Day says farmers often think of trees as an enemy, since they take up space that could otherwise be used for production. The Wellington Stewardship Council, which he belongs to, is interested in encouraging a different way of thinking of trees that considers their economic value.

“We’re suggesting environmental stewardship and tree planting makes



Florence Martin, whose father was the first to sign up for trees at the township office, hides amid the cedar trees.

Photo by Janet Baine

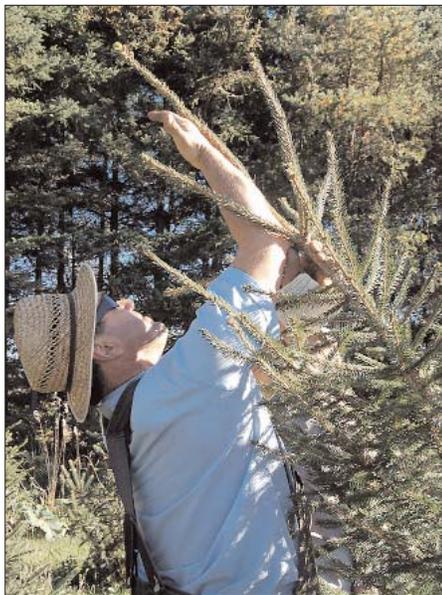
good economic sense,” he says. “We can have a 15 to 30 percent increase in income in Mapleton just by strategically planting trees.”

In 2001, Trees for Peel was formed and partnered with the Wellington Stewardship Council, the municipality and the GRCA.

The first farmer to sign up for trees was Ernie Martin. The trees that are close to his vegetable garden are growing quickly and helping increase the yield in his garden. Other trees near the road have cut down on the snowdrifts that used to form in his laneway. Martin has noticed that trees planted along rural roads offer shelter to the Mennonite horses in the wintertime and the horses’ relief when they hit a stretch of roadway with trees is noticeable.

Trees for Peel implemented more than 100 projects and strategically planted 75,000 trees. At the parochial school, kids planted trees and a wildflower garden. Decorative signs and native plants were added at the entrance to communities to encourage people to slow down.

Building on this success, the organization is expanding to cover not only Peel Township but also Maryborough Township and Drayton, since these areas make up the Town of Mapleton, which



*Ernie Martin measures the growth of one of the first trees he planted in 2001.*

formed in 1999.

“This program will continue for as long as it takes to bring the tree cover of Mapleton up to a healthy standard. This is the least we can do for future generations,” Day says.

## 2007 award nominations

**N**ominations for Watershed Awards can be made by anyone, so if you know an individual, organization or company within the Grand River Watershed that has made an outstanding contribution to conservation and the environment, we invite you to nominate them.

The deadline for submissions is earlier this year — June 30. The awards ceremony will take place in the fall. Nomination forms are available online at [www.grandriver.ca](http://www.grandriver.ca) and they are attached to the electronic version of this newsletter. In the interests of the environment, we are not mailing out a form with *Grand Actions*, but we would be happy to mail one to you if you call (519) 621-2763, ext. 2302.



## WHAT'S HAPPENING?

### Water professionals and students gather at U of G

**W**ater resources professionals and students entering this field recently got together for an inaugural networking session at the University of Guelph.

The event was a success, says Cecilia Ferreyra, an organizer. It was held by the newly-formed Guelph Student and Young Professionals Chapter (SYP) of the Canadian Water Resources Association.

A highlight was an inspiring presentation by Dr. Isobel Heathcote, dean of graduate studies at the University of Guelph. She spoke about her career in water resources management, encompassing public and private sector posi-

tions. In addition to numerous papers, reports, and policy commentaries, Heathcote is the author of *Environmental Problem Solving: A Case Study Approach* (McGraw-Hill); and *Integrated Watershed Management: Principles and Practice* (Wiley).



Several students took advantage of the networking event and displayed posters on their research projects. The event brought 30 students and water resources professionals together from local universities, conservation organizations and consulting firms.

The CWRA is celebrating its 60th anniversary in June and was formed to promote the development, control, conservation and preservation of water resources in Canada. A Student and Young Professionals (SYP) chapter was established at the University of Waterloo in 2001 and University of Guelph’s chapter was formed in the fall of 2006.

“We are starting the process of building a water community at Guelph and to foster a partnership between the Guelph and Waterloo SYP chapters,” Ferreyra says.

More information is available on the Guelph SYP Chapter website at [www.uoguelph.ca/~mferreyr/](http://www.uoguelph.ca/~mferreyr/) and the CWRA website at [www.cwra.org](http://www.cwra.org).

By Dan Schneider and Peter Pautler  
GRCA Resource Interpreters

### Butterflies not so delicate as you think

By Dan Schneider and Peter Pautler  
GRCA Resource Interpreters

**O**f the 17,000 or so butterfly species worldwide, nearly 300 are resident in Canada, 138 can be found in Ontario, but the species within the Grand River watershed have not been catalogued.

“There is not enough information about butterfly numbers and distribution in the province, not only our watershed,” explains Tony Zammit, the GRCA’s



Monarch butterfly on a sumac tree.

Photo by Dan Schneider

ecologist.

The GRCA's work to restore the prairie grasslands in Brant County will benefit butterflies that prefer open habitat. Monitoring butterflies is one way of assessing the health of prairie areas. Thinning tree plantations to create openings in the tree canopy to bring in more sunlight helps woodland butterflies such as wood nymph and wood satyrs, says Zammit.

Butterflies belong to the insect order Lepidoptera, which includes moths. Generally, butterflies have more slender bodies than moths and clubbed rather than feathery antennae. As well, butterflies take to the air during the day, while moths usually fly at night.

The butterfly's delicate appearance is deceptive. Butterflies are able to fly with less than half of their wing surface intact, and powdery scales make their wings difficult for predators to grasp.

At least two butterfly species found in the watershed are considered to be provincially rare. The purplish copper was last observed at the Sudden Tract in North Dumfries Township in 1977. The tawny emperor has been seen in the Brantford and Cambridge areas, but not in this decade, according to the Ministry of Natural Resources.

Monarchs are one of the largest butterflies in Canada and are renowned for their long migratory journey between Canada and Mexico that was discovered in 1975. Monarchs are listed as special concern provincially and nationally due to disturbances in their overwintering grounds in Mexico. The use of pesticides in Ontario is another threat for

them. Milkweed, the monarch's sole larval food plant, remains on our "noxious" weeds' list.



NOW AVAILABLE

## New driving tours feature historic mills

By Adam Hannon  
GRCA Communications Intern

The old mills that were the foundation of the thriving communities in the Grand River watershed just got easier to find and visit.

There are four new driving tours covering Guelph, Fergus/Elora and Elmira/St. Jacobs; the Cambridge area; Brantford and Six Nations; and Haldimand and Six Nations. The tours are entirely self-guided, and printable maps with suggested destinations and are available online at [www.grandrivercountry.com](http://www.grandrivercountry.com).

Most of the tours only take about an hour to drive, except the Guelph-Fergus-St. Jacob's trip, which is about twice the length of the others. Even though there's not much driving involved on any given tour, you would need two days to see everything, says Ralph Beaumont, man-

ager of communications at the GRCA.

Beaumont said the tours will attract local people as well as tourists.

"A lot of people don't realize what's in their own backyard," he says. "The whole idea is to get out there and discover. One of the benefits is people appreciating the river and our history. It makes living here more interesting."

### Mill inventory

Warren Stauch, a retired geography teacher with a passion for history, undertook an inventory of mills for the GRCA and this is the basis of the tours.

"Every community was built on the water and every one had a mill," Stauch says, adding that even he was surprised by the number of mills that remain in the watershed. Many were built in the 1800s as saw mills, but as the area was farmed, they were converted into grist mills to produce flour or to power textile factories. All of them were powered by water.

"The mills were the first major industrial component to the community. Then came a general store, a post office, a church and a school. But it all started with the mill," Stauch says.

He found 10 mills remain open to the public, 23 are privately-owned and nine are preserved as ruins. He will add others to the inventory when he learns



Bringing the past into the present: The Harris Woollen Mill ruins are a stop on the Guelph-Fergus driving tour. On summer days it is often used for special events, like weddings.

about them.

Grand River Country, a promotional organization joining the GRCA and tourism marketing organizations from up and down the Grand, has developed the driving tours with a focus on the many old mills that dot the landscape.

Over the years, most have been converted to other uses, ranging from private residences to stores, inns and restaurants. No matter what their current use, they still represent a commanding presence on the river bank, and they continue to be an important part of the heritage of the Grand River watershed.



## DO IT YOURSELF

# Think green to keep it clean

By Zoë Green  
GRCA Green Team Member

**B**efore commercial cleaners were introduced in the 1940s, cleaning was done with soap, water and elbow grease.

Today, Canadian households use approximately 54,000 tonnes of general purpose cleaners per year, resulting in contamination of our fresh water, soil and air resources, putting our health at risk. Contamination results not only when we use these chemicals, but also can occur while they are being manufactured.

Many laundry detergents, for example, are petroleum-based. Not only do these products use up a non-renewable resource, but many are not readily biodegradable and also contain phosphates.

Fortunately, there are some simple solutions that offer great alternatives. Instead of using chlorine bleach, try oxygen bleach or borax. There is nothing more natural or economical than using sunshine to bleach and disinfect laundry, so simply put it on a clothesline out in the sun.

To remove ink stains, soak with milk. For coffee stains, mix egg yolk with lukewarm water and apply this to the stain.

Environmentally responsible recipes often include:

**Soap flakes:** attract dirt and grease and is also water soluble.

**Borax:** cleans and deodorizes while also softening water.

**Washing soda:** cuts grease and removes stains; disinfects.

**Baking soda:** cleans and deodorizes; softens water to increase the suds and cleaning power of soap; good scouring powder.

Look for these items in the laundry aisle at the grocery store. You'll find that they cost the same or less than conventional harsh detergents.

Many other cleaning products on the market contain toxic substances that can be harmful to family, pets and the environment. Be sure to read the label to understand what you're using and storing in your home.

Simple mixtures that include white vinegar, for example, are very effective

around the house. The natural acids help cut grease and remove mineral deposits. Combine with equal parts of salt to use on mildew.

Vegetable oil is good for removing sticky residue left behind by adhesive labels and oil-based paint from your hands. It can also be used with lemon to make wood polish.

The scouring power of baking soda is probably one of the simplest and most effective cleaners. If you sprinkle a little baking soda on a damp cloth and wipe the inside of your coffee or tea-stained mugs, they'll look like new.

There are many resources and recipes available if you're interested in cleaning without chemicals. Search the Internet or check your local library or bookstore for information.

*Zoë Green is a member of the GRCA's Green Team — staff volunteers who encourage eco-friendly practices at home and at work. They recently compiled eco-tips on a variety of topics and these small actions can go a long way towards maintaining the quality of our natural resources.*



*A little dab of baking soda and other environmentally-friendly cleaning products can go a long way towards improving the water quality in the Grand River, says Zoë Green, a key member of the GRCA's Green Team.*



## DID YOU KNOW?

### Grand River Mills

- The Grand mill inventory, completed in 2006, lists the history of 40 mills within the watershed.
- 2007 is the 200th anniversary of the founding of John Erb Mill (Dover Flour Mills) on the Speed River in Preston, which is the oldest continuously operating mill in Waterloo Region.
- Snider Mill in St. Jacobs was once owned by E.W.B. Snider, one of the founders of Ontario Hydro.
- Today you can eat, sleep, get married or buy flour in an historic mill.

### About Grand Actions

This newsletter is produced bi-monthly by the Grand River Conservation Authority on behalf of the partners in *The Grand Strategy*. Current and back issues are available online at: [www.grandriver.ca](http://www.grandriver.ca).

#### For information on

##### **The Grand Strategy contact:**

Barbara Veale, GRCA,  
400 Clyde Road, Box 729,  
Cambridge, ON, N1R 5W6  
Phone: (519) 621-2763 Ext. 2274  
Fax: (519) 621-4844  
E-mail: [bveale@grandriver.ca](mailto:bveale@grandriver.ca)

#### For newsletter submissions contact:

Janet Baine, GRCA  
Phone: (519) 621-2763, Ext. 2302  
Fax: (519) 621-4844  
E-mail: [jbaine@grandriver.ca](mailto:jbaine@grandriver.ca)

Deadlines for submissions are the 15th of February, April, June, August, October, December. Submissions may be edited for length or style.

Tax deductible donations and sponsorships toward the cost of producing this newsletter are always welcome.

#### Publications Mail

Agreement #144871



## The Grand Strategy Calendar

**Grand Opportunities Fly-Fishing Forum, Saturday, June 2, Belwood Lake Conservation Area.** Hosted by Friends of the Grand River, this features free fly-fishing seminars, a BBQ steak lunch, manufacturer demos, a used fly-fishing equipment sale and a course specially designed for women interested in learning about fly-fishing. For more information call Steve May (519) 621-2763 ext. 2300 or visit [www.friendsofthegrandriver.com](http://www.friendsofthegrandriver.com).

**Family Water Festival, Doon Heritage Crossroads, Kitchener, Saturday June 2, 10 a.m. - 4 p.m.** Spend the day at this free family water festival with over 20 hands-on activity centres, door prizes, a bicycle raffle and gift bags for the first 100 families. For more information, visit [www.wwcgf.com](http://www.wwcgf.com).

**FMG Dragon Boat Races, Guelph Lake Conservation Area, Guelph, June 8-10.** The festival weekend will be filled with racing, entertainment, food, a kids play area, dragon lair party and lots of family fun. Visit [www.facilitymarketing.com](http://www.facilitymarketing.com) for information.

**28th Annual Speed River Clean Up, Royal City Park, Guelph, Saturday, June 9, 9 a.m.** Extreme weather date is Saturday, June 16. Following the clean up, all volunteers are invited to a free barbeque at McCrae House, 108 Water Street, with door prizes and musical performances by the Kramdens and Households. Visit [www.opirgguelph.org](http://www.opirgguelph.org) for more information.

**10th Annual Tour de Grand, Duncan McIntosh Arena, Churchill Park, Cambridge, Sunday, June 10.** Join about 700 riders of all levels for this family event. Riding times are 8 a.m. (160 km); 8:30 a.m. (100 km); 9:30 a.m. (50 km); 10 a.m. (25 km); 10:30 a.m. (10 km). Proceeds go to Cambridge Bikeway Network. For information visit [www.cambridgetourdegrand.com](http://www.cambridgetourdegrand.com).

**Family events at Laurel Creek Conservation Area, Waterloo.** Laurel Creek at Night (Saturday June 9, 8:30 p.m.); Bat Hike and Night Exploration (Saturday, June 16 8-10 p.m.); Crazy Critter Show (Saturday, June 30, 2 p.m.); The Aquatic Life (Saturday, July 7, 2 p.m.); Bats Aren't Bugs (Wednesday, July 11, 8:30 p.m.); CSI: Animal Kingdom (Saturday, July 21, 2 p.m.). For more information visit the calendar section of [www.grandriver.ca](http://www.grandriver.ca) or call (519) 884-6620.

**Guelph Lake Triathlon Weekend, Guelph Lake Conservation Area, June 23-24.** Register at [www.trisportcanada.com](http://www.trisportcanada.com) or call Mitch Fraser at (905) 562-6670.

**Second Annual Grand River Conservation Foundation Golf Tournament, Tuesday, June 26 at the Galt Country Club, Cambridge.** The event honours the late Archie MacRobbie who was a member of the GRCA board for 25 years and served as chair from 1990 to 1997. Tickets are \$225 and include a barbeque lunch, gala dinner, prizes, a partial charitable receipt, and a day of exceptional golf. Register online at [www.grandriver.ca/foundation](http://www.grandriver.ca/foundation). For more information, call (519) 621-2763 ext. 2272, or e-mail [ahillis@grcf.ca](mailto:ahillis@grcf.ca).

**7th Annual Grand River Watershed Water Forum, GRCA Administration Centre, Cambridge, Friday, Sept. 14.** See the attached flyer for details or visit [www.grandriver.ca](http://www.grandriver.ca) and click on "Water Forum" for program information and to register.

# REGISTRATION

## To register, please fill out the registration form and mail to:

Grand River Conservation Authority, c/o Brenda Armstrong  
400 Clyde Road, Box 729  
Cambridge, ON N1R 5W6  
Phone: 519-621-2763 ext. 2250, Fax: 519-621-3529 or  
E-mail: waterforum2007@grandriver.ca

You can also register on-line at  
[www.grandriver.ca/waterforum/register](http://www.grandriver.ca/waterforum/register)

Please register by September 7, 2007.

Registration fee:  
\$90  
Student/Senior:  
\$55

NAME

JOB TITLE

AFFILIATION

ADDRESS

CITY POSTAL CODE

TELEPHONE FAX

E-MAIL ADDRESS

CREDIT CARD:  VISA  MASTERCARD

CREDIT CARD NUMBER EXPIRY DATE

NAME ON CARD (if different from above)

Please notify me by e-mail so that I can download the current issue of the Grand Actions newsletter.

Please make cheques payable to the Grand River Conservation Authority and complete a separate registration form for each person attending.

The Water Forum will be held outdoors under a "grand" marquee on the grounds of the GRCA Administration Centre. **Please dress accordingly.** Lunch is included in the registration and will accommodate vegetarian diets.

Exhibit Space is available (\$225.00 including one registration; skirted tables are \$25.00 extra) on a first-come, first-served basis. To register your exhibit, please download the form from our website at [www.grandriver.ca](http://www.grandriver.ca) or contact Sonia Morgan at 519-621-2763 ext. 2309, Fax: 519-621-4844 or e-mail: [smorgan@grandriver.ca](mailto:smorgan@grandriver.ca)

## Morning program:

- 8:00 - 8:30 a.m. *Registration & Coffee*  
**Moderator** Mayor Karen Farbridge, City of Guelph
- 8:30 - 8:50 a.m. **Welcome and Greetings**  
Gilles Leclerc, Director General, Space Technologies, Canadian Space Agency
- 8:50 - 9:30 a.m. **Henry Lickers**, Mohawk Council of Akwesasne
- 9:30 - 9:50 a.m. **5th Annual Watershed Report** - Paul Emerson, CAO, Grand River Conservation Authority
- 9:50 - 10:10 a.m. **Refreshment Break**
- 10:10 - 10:40 a.m. **Panel Discussion: Source Water Protection**
- Great Lakes Historical Perspective - John Johnston, University of Waterloo
  - Walkerton Clean Water Centre - Saad Jasim, CEO
  - Lake Erie Source Protection Region - Ian Smith, Ontario Ministry of the Environment
  - TBA
- 11:40 - 12:00 p.m. **Questions & Answers**
- 12:00 - 1:15 p.m. **Luncheon ~ Networking ~ Interactive Exhibits**

## Afternoon program:

- Moderator** Mayor Brenda Halloran, City of Waterloo
- 1:15 - 1:55 p.m. **George Rotor** - Co-CEO, Engineers Without Borders
- 1:55 - 2:15 p.m. **The Living City** - Brian Denney, CAO, Toronto and Region Conservation Authority
- 2:15 - 2:55 p.m. **Panel Discussion: Emerging Issues & Innovative Solutions**
- Wastewater Management - Cam Walsh, City of Guelph
  - Storm Water Management & Retrofitting - Quintin Rochfort, Environment Canada, Canada Centre for Inland Waters
  - Anaerobic Digesters - Jake DeBruyn, New Technology Integration, Ontario Ministry of Agriculture, Food and Rural Affairs
- 2:55 - 3:10 p.m. **Questions & Answers**
- 3:10 - 3:30 p.m. **Wrap Up** - Gord Miller, Environmental Commissioner of Ontario



7<sup>th</sup> ANNUAL

# GRAND RIVER WATERSHED WATER FORUM

## Water:

### GLOBAL REALITIES ~ LOCAL SOLUTIONS

Friday, September 14, 2007

8:30 a.m. - 3:30 p.m.

Grand River Conservation Authority  
400 Clyde Road, Cambridge, Ontario



7<sup>th</sup> ANNUAL

## GRAND RIVER WATERSHED WATER FORUM

# Water:

## GLOBAL REALITIES ~ LOCAL SOLUTIONS

The Grand River Watershed Water Forum is an important gathering of experts on key water issues, growth trends, emerging technologies and innovative solutions.

This year's forum – Water: Global Realities ~ Local Solutions – will continue to provide government leaders, municipalities, businesses, farmers and others with information about new technologies, innovations and community involvement needed to protect and improve our valuable water resources.

### Keynote Speakers

**Gilles Leclerc,**  
*Director General, Canadian Space Agency*

In the history of our modern world, few events rival those of the field of space in terms of its ability to induce entrepreneurial drive, spur scientific discovery, and generate national pride. The Canadian Space Agency has set out to ensure that all Canadians learn and benefit from the innovations of space science and technology to the greatest extent possible.



A geophysicist by training, Mr. Gilles Leclerc joined the Canadian Space Agency as it was created in 1989. He occupied the positions of Project Engineer, Program Manager and Director of Technology Management and Applications before becoming Director General of the Space Technologies Branch in 2004, where he is responsible for research and development on advanced space systems and their applications in earth observation, satellite communications and exploration.

**George Rotor,**  
*Co-CEO, Engineers Without Borders*

Poverty is not about weakness. For the 800 million people who go hungry each day and the one billion who lack access to clean water, poverty is an absence of opportunity. Engineers Without Borders responds to this urgent need by helping people in developing communities gain access to appropriate technologies that will improve their lives.



George Rotor became interested in international development while completing his degree in Engineering at the University of Waterloo. Excited by the role of appropriate technologies in development he co-founded Engineers Without Borders in 2000 as a way to tap into the Canadian engineering community in the fight against global poverty. George was named one of Canada's Top 40 Under 40 in 2005 and has been featured by TIME Magazine as one of Canada's next generation of social leaders.

**Henry Lickers,**  
*Mohawk Council of Akwasasne*

Henry Lickers is a Haudenosaunee Citizen of the Seneca Nation, Member of the Turtle Clan. He studied biology and geography at Trent University and the University of Waikato, New Zealand. He is presently Environmental Coordinator for the Mohawk Council of Akwasasne. To the Haudenosaunee water is not just a physical resource according to Lickers, "Because we live by the land, water has a spiritual meaning ... it is a part of our culture."

**Brian Denney,**  
*CAO, Toronto and Region Conservation Authority*

*It's the year 2100, and our great-great-grandchildren enjoy living and working in a city region that is cleaner, greener and healthier than the one we inhabit today.*

The TRCA believes that the future of healthy cities depends on immediate individual and corporate action to find creative ways of developing more environmentally friendly urban spaces. Anyone can be a part of this metamorphosis into a cleaner, more beautiful place to live. The Living City brings together individuals, businesses and governments to create innovative programs that will allow cities to grow and thrive today and well into the future.

**Gord Miller,**  
*Environmental Commissioner of Ontario*

The Water Forum would not be complete without Gord Miller adding his own unique observations in summarizing the day's discussions. Gord has served as the Environmental Commissioner of Ontario since 2000 and oversees the implementation of the Environmental Bill of Rights. He has extensive experience with environmental issues including municipal sewage, drinking water, solid waste management, hazardous waste, noise, air pollution and land use planning.

**HOSTED BY: The Grand Strategy Water Managers Working Group**  
ORGANIZING PARTNERS: Grand River Conservation Authority, Grand River Conservation Foundation, City of Guelph, Regional Municipality of Waterloo, Ontario Ministry of Natural Resources, Ontario Ministry of Agriculture, Food & Rural Affairs, Environment Canada, Canadian Water Network, Trout Unlimited Canada, Six Nations EcoCentre, City of Cambridge, Ontario Centres of Excellence - Earth & Environment Technologies, Frontline Environmental Management Inc.

***A day of discussion about healthy water innovations in both technology and community development.***