



#### **OUR MISSION**

To be a living museum which serves local, regional and global communities while developing and promoting public understanding of the relationship between the plant world, humanity and the rest of nature.

### ÉNONCÉ DE MISSION

Étre un musée vivant au service des communautés local, régionale et internationale, tout en développant et en promouvant la comprehension par le public des relations entre le monde vegetal, l'humanité et le reste de nature.

#### VISION AND MANDATE

Royal Botanical Gardens has a vital role to play as a botanic garden in the 21st century with key roles in the area of horticulture, conservation, education, science and research.

### **FUNDERS**

Royal Botanical Gardens is funded by the people of Ontario through Ontario Ministry of Culture, City of Hamilton, Regional Municipality of Halton, Royal Botanical Gardens members, The Auxiliary of Royal Botanical Gardens, and many corporations, foundations and individuals.

## 2006 BOARD OF DIRECTORS

Under the Distinguished Patronage of the Honourable James K Bartleman, Lieutanant Governor of Ontario

#### Officers of the Board

Terry E. Yates, Chair Kathy Graham, Vice-Chair Christine Kerr, Secretary Ruth Lee, Treasurer Mark Runciman, Executive Director

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Director Emeritus

Dr. Leslie Laking

## LETTER FROM BOARD CHAIR AND EXECUTIVE DIRECTOR

2006 was a defining year for Royal Botanical Gardens as we moved into year one of our three-year Transition Plan.

After the 2005 publication of the Mandate Review committee's report, A Fresh Start, our mandate was reaffirmed and a Transition Plan was prepared by our Board of Directors. With support of our core funding partners — the Province of Ontario, the Ministry of Culture, the Regional Municipality of Halton and the City of Hamilton — the stage was set for the real visioning to begin.

Plans were developed for the Hendrie Park Gardens Gateway facility. Providing all-season, barrier-free access between RBG Centre and Hendrie Park Gardens, the Gateway will accommodate interactive, multi-media displays that explore and expand upon the connection between our cultivated and natural lands. Improvements were also made in some garden areas to provide visitors with a more definitive, satisfying experience at each site.

A new director of development, Lisa Dodd, led a focused effort to ensure regular communication with our members and donors. Many other staff changes took place in 2006, primarily at the senior level, as we developed a new team tasked to move the organization forward. We were proud to recognize Barbara McKean's twenty-five year record of excellence with a promotion to head of education. Dr. David Galbraith, head of scientific development, accepted a new challenge as interim head of conservation. Harold Johnson joined Royal Botanical Gardens staff as our chief financial officer. The Horticulture department has benefited from the addition of Harry Jongerden as interim director of horticulture. Ross Halloran began leading our marketing and event staff as director of marketing and visitor experience and Mark Runciman officially became executive director of the Gardens. These staff changes and additions have resulted in notable improvements in all areas of operation.

In 2006 we worked to improve communications in all areas. Financial reports were provided to our funders in regular progress meetings throughout the year. We have improved the way we promote ourselves and we are sharing with the public the importance of our role as a botanical garden in our local community, in our province and globally. We have also improved communications with our government partners at all political levels, keeping them informed about our development.

This past year also saw the formation of an increasing number of partnerships and working relationships with many organizations as a way of moving forward in the tourism industry. Special events, art in the gardens and festivals have reinvigorated Royal Botanical Gardens.



Artist's concept of Gateway facility. COURTESY OF DIAMOND AND SCHMITT ARCHITECTS

We produced a wonderful, first-ever, television commercial and a promotional DVD, Branching Out. The DVD explains in detail the invaluable work that we do in all four of our mandated areas: Horticulture, Education, Conservation and Science. This DVD will be used extensively as we explain to our funders, donors, stakeholders and visitors, what a wonderful and irreplaceable asset we are to this community. It is just one of many communications vehicles that will enable us to branch out further into the local, regional and global community.

Throughout all of this change, the one thing that remains a constant is the support and commitment of the Auxiliary of Royal Botanical Gardens. With their provision of tens of thousands of volunteer hours and financial support, our job is much easier. The Auxiliary and all our volunteer groups are to be commended for their efforts.

Our 2006 Annual Report represents much more than a review of the past year. It is also a glimpse into the future of Royal Botanical Gardens and, in years to come, it will be a touchstone that links us back to our past, where the vision of a botanical garden for the 21st century and beyond was conceived.

We have a long way to go, but we are very confident of the results that we are seeing to date. We hope that you enjoy and appreciate all of the changes that so many individuals are making to the betterment of this very important organization.

Terry Yates Board Chair Mark Runciman **Executive Director** 

## **HORTICULTURE**

Harry Jongerden, Interim Director of Horiculture

Horticulture's prime focus, beginning in May 2006, was to revive departmental capacity and restore standards of excellence. Minimum Maintenance In Effect signage was removed from the Arboretum in late May. It was the first indication that we were determined to make a success of the new staffing model and make no excuses. Although we began the year with less than half the gardeners of 2004, we were now in a position to make use of many more students and, increasingly, volunteers in the garden.

The weather cooperated perfectly. A soft winter in 2005/2006 produced the most profuse spring bloom of roses, flowering shrubs and trees seen in many years. Plentiful rain throughout the year restored groundwater, revived ailing trees and kept grass green all summer. We assisted nature by undertaking improvements in all four garden parks.

#### Hendrie Park Gardens

**ENTRANCES:** 

- New containers installed in Fountain Court and Oak Allee
- New walkway installed at Rose Circle to separate pedestrians from vehicle traffic
- Improved West parking lot islands with new displays of ornamental grasses



Rose Circle



Medieval Kitchen Garden

### MEDIEVAL KITCHEN GARDEN:

Small new garden featuring display of plants used in Northern Europe, arranged in four sections by utility

#### ANNUALS TRIALS:

Conducted in partnership with Rodger Tschanz, University of Guelph

#### Rock Garden

- New shrub plantings at kiosk entrance
- Enhanced parking lot islands

## Laking Garden

LOWER TERRACE:

- Iris collection replanted in a new design a fleur-de-lis within a turf maze (this project continues into 2007)
- Weed-contaminated soil replaced with new soil
- Improvements significantly funded by Barbara Laking Memorial Fund

#### MIDDLE TERRACE:

• Perennial beds revived with new plantings from our nursery stock and from nursery trade

#### Arboretum

- 60 additions to lilac collection moved to Lilac Dell from our nursery in fall
- Enhanced maintenance, including removal of Renfest detritus

By August, noticeable improvements were being commented upon by visitors, staff and volunteers.

As aesthetic improvements were being made, we were also moving to restore the living museum functions of plant collections management and preservation. A new position, curator of collections/horticulturist was filled in November, with a mandate to rationalize collections and revive plant documentation. Alex Henderson comes to us from Royal Botanic Garden, Kew - a human resources coup for Horticulture.

As we began to revive traditional botanical garden functions, we also turned to the Mandate Review recommendations that called upon Horticulture to use native plants and to reflect our natural landscape. This directive led us to conceive the "Borders Project" - a plan to link our cultivated gardens with the adjacent natural lands. We will be controlling invasive plants and protecting our natural lands while using native plants for aesthetic effect. This will result in an innovative, fundable and multi-disciplinary project that engages all four mandated areas of Royal Botanical Gardens. Building upon the Mandate Review, the overall direction for our department is to move toward a new model of sustainable horticulture.

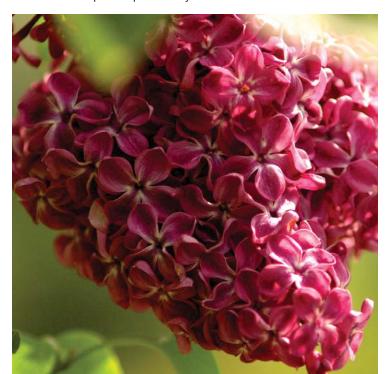
Finally, Royal Botanical Gardens acquired and began to implement a Hazard Tree Policy that prioritizes and systematizes hazard tree assessment and abatement. Our previous high standards were confirmed in this policy and given a prescribed regimen for future tree and trail maintenance. Trail directional and way-finding signage was installed, with GIS coordinates, to comply with one of the Coroner's Jury Inquest recommendations. Trail maintenance prioritization, along with temporary and permanent trail closure, was determined at an interdepartmental meeting where educational needs, conservation concerns and operational capacity were debated.

Trees were stressed in 2006 by gypsy moth predation. We await either a cyclical population collapse or winter weather cold enough (-30° C) to kill them.

2006 was the turning point for Horticulture, the year during which we began to move ahead on many fronts with the renewed commitment of Auxiliary volunteers, funders and staff, assisted by new attitudes and innovation.



Working under the direction of our horticulture staff, students learn and earn over a summer work period spent at Royal Botancial Gardens.



## **EDUCATION**

Barbara McKean, Head of Education



## **EDUCATIONAL MISSION:**

Education at Royal Botanical Gardens encourages environmental stewardship by providing meaningful and diverse learning experiences that connect people with the plant world and help them to understand the crucial role that plants play in sustaining and enhancing our lives and the environment.

Visitors often ask us exactly what it is that sets a botanical garden apart from other parks, landscapes and public gardens. Perhaps the most readily recognizable difference is our focus on education. Be it a public Fishway demonstration by our Conservation staff, a garden tour by Auxiliary members or Horticulture staff, publications produced under our Science banner, or courses formally offered through our Education department, the sharing of our stories and knowledge-base is a key institutional feature. While a report like this focuses on departmental milestones, ultimately education is a function that crosses all boundaries.

2006 was an incredible year of change and growth for each of the mandated functions of Royal Botanical Gardens, and Education was no exception. Education staff members launched a number of important new initiatives which continue to receive national and international attention. Increased advertising raised the profile of our programs, resulting in substantial increases in registrations right across the board, and our challenging list of Key Performance Indicators was whittled down by year's end.

Programs aimed at children continue to be a priority. While our educational initiatives target audiences from preschoolers to senior citizens, an investment in children's education pays huge future dividends in engaging individuals in environmental stewardship and building a community of support for the Gardens.



Canoeing in Cootes Paradise Marsh

School and youth programs continued to grow, with a doubling of our 2005 school program numbers. In fact, May and June broke all previous records for programming. Schools visited from all around the Golden Horseshoe and beyond, with a total of 16 school boards sending classes here. New programs were developed to make our offering more accessible for homeschooled children, and these have been very well-received.

One of our most exciting initiatives was the development of an innovative program for new Canadian children. Though research indicates that children need connection with the natural world, and that the seeds of stewardship are sown in childhood, this is a group that has little opportunity to experience the "wild side" of their new home. Held during the summer months, this program brought groups of newcomer children to the Nature Interpretive Centre for a four-day program that introduced them to local biodiversity and environmental issues. We worked with a number of community partners and funders to pilot this Junior Ecology Leaders program. Hamilton's Settlement and Integration Services Organization and Parks Canada's Discovery Centre supplied generous in-kind support in terms of staff time and energy, while other programming assistance came from Bay Area Restoration Council. Funding was received from Nature Canada, the Hamilton Naturalists' Club, the George Lunan Foundation and Ducks Unlimited Canada.

Day camps set a new annual record, and we deepened our commitment to high quality camp experiences by creating the new position of camp and youth programs coordinator, which was filled in early June by Jason van Veen. Taking place during all school breaks, our 2006 camp offering totaled 89 different camps (50 week-long programs, and 39 single days), with 1,550 campers attending — this represents almost 5,100 camper days spent at Royal Botanical Gardens. Evaluations continue to be excellent, with word-of-mouth being the greatest generator of new registrations.



Bird watching at the Nature Interpretive Centre

Adult education activities were also on the grow. Our public program calendar spans a wide range of interests connected to our mandate, from how-to courses on gardening and birdwatching, to plant-based workshops such as chair caning, basketry and aromatherapy. Our 2006 numbers grew 45 percent over 2005, a trend that we are intent on maintaining. The fall symposium returned after a two-year hiatus and an appreciative crowd focused their attention on foliage in garden design.

#### HORTICULTURAL THERAPY

Since the late 1960s, Royal Botanical Gardens has offered professional development on the use of horticulture as a therapeutic medium. The program took new steps forward in 2006 when we began to offer training that leads to professional certification. The first course in the five-part classroom component of the Canadian Horticultural Therapy certificate program was delivered to a sell-out crowd in the early autumn. Two-day professional workshops were also delivered at Royal Botanical Gardens, and in both Sudbury and the Windsor area.



#### INTERPRETATION

Informal learning is an important part of our overall education offering and an increased focus on the visitor experience means that much more attention will be placed on this area. Projects completed in 2006 include the installation of new trailside interpretive panels, especially along Grindstone Marshes Trail in Hendrie Valley. A new Medieval Herb display was developed adjacent to the Medicinal Garden, providing additional plant material for medicinal plant programming. Tours and demonstrations were offered on a daily basis through the summer season.

Families are an important audience for us, and our GPS-based GeoQuest programs took off in 2006. We were also able to develop another set of Discovery Packs with the help of the Martin Foundation, and to upgrade old signage in the Discovery Garden. We look forward to exciting new developments planned for 2007.

#### **OUTREACH**

As Ontario's botanical garden, we wish to make our content available to the widest audience possible, and in 2006, we made significant new starts in this area.

Early in the year, the Healing Power of Plants launched at the Virtual Museum of Canada (www.virtualmuseum.ca). We were one of a number of partners involved in the development of this bilingual online exhibit focusing on plant-based medicine.

In fall, we were excited to begin work on our new distance learning project with the hiring of Karin Davidson-Taylor, our new outreach education coordinator. Funded through the Ontario Trillium Foundation, this project will pilot in spring, 2007 with a full slate of videoconference-based virtual field trips to Royal Botanical Gardens. We will be focusing on programs to schools across Ontario, though large audiences already exist in other provinces and across the USA and beyond. This technology also offers the opportunity to enhance our existing programs and develop new collaborative programming with other institutions near and far.

Our staff expertise is a valued asset that we share readily. Education staff were called upon to speak at conferences across Ontario including the national Risk Management in Outdoor Education conference, the Latornell Conservation Symposium, and the Ontario Society for Environmental Educators spring conference, as well as the Canadian Biodiversity Education and Conservation Colloquium in Vancouver.



interpretive panel along Grindstone Marshes Trail

Thanks to our hard-working and creative team of educators, 2006 was a wonderful year of refocusing on our mandate with achievements that were nothing short of remarkable. We're looking forward to an even more exciting period of growth during our 60th anniversary year in 2007—just watch us grow!

## SCIENCE AND CONSERVATION

David A. Galbraith, PhD, Head of Scientific Development and Interim Head of Conservation; Tÿs Theÿsmeÿer, Aquatic Ecologist; Natalie Iwanycki, Field Botanist and Herbarium Curator,

## **AQUATIC HABITAT MANAGEMENT** AND RESTORATION

## Cootes Paradise and Hendrie Valley Marshes

Restoration of Cootes Paradise Marsh, one of the most important sites in Ontario for fish spawning, birds and other wildlife, depends upon addressing problems from water quality and levels, to invasive species. While introduced carp (Cyprinus carpio) are the most damaging, reducing them to a sustainable low level depends on dramatic improvements to inflowing water quality. Excess nutrients, sediment and toxins from runoff are the most serious issues. Further changes have been caused by regulation of lake levels and alterations of seasonal stream flows. Many invasive species such as carp have been favoured by these changes. It is the carp's spawning and foraging behaviour that uproots and crushes marsh plants and animals, resulting in marsh ecosystem collapse.

The aquatic ecosystem recovery work at Royal Botanical Gardens is termed Project Paradise, a partnership involving many stakeholders. Now in its second decade, this program involves monitoring, active intervention to reduce stresses, and restoration of damaged plants and other features. In 2006 efforts continued to address nutrient loads and invasive carp. Ecological restoration is significantly ahead of progress in parts of the sanctuaries; many areas now boast 100 percent aquatic plant cover; for most areas carp are excluded and water quality improving.

Partners: Environment Canada and Ministry of the Environment

#### MONITORING

We monitor select animal or plant species and other indicators of the health of natural systems.

## Water Quality

In 2006 lower water levels, higher carp numbers concentrated and inflowing pollutants resulted in generally poor water quality areas throughout much of Cootes Paradise marsh. However when compared to similar low water level years from the past decade, results showed measurable improvements. Localized areas such as Upper Paradise Pond, Presidents Pond, and the Hendrie Valley Ponds maintained high quality water until late July when severe thunderstorms flooded them leaving very poor water quality and allowing carp access.

## Marsh Plant Monitoring

Submergent plant monitoring indicated overall plant growth was limited and restricted to water less than 0.5 m deep. The main target species white water lilies (Nympheae tuberose) increased substantially in numbers adding several hundred plants. Southern wild rice (Zizania aquatica) grew successfully in multiple locations, although generally restricted to protective enclosures. Emergent plants showed tremendous expansion under the lower water levels, particularly the cattails (Typha sp.) growing an addition 2 m, and adding over 200,000 new plants.

Partners: Environment Canada

## Marsh Monitoring for Amphibians

Ongoing monitoring indicated a gradual increase of several species. Leopard Frogs (Rana pipiens), American Toads (Bufo americanus) and Green Frogs (R. clamitans) are most regularly encountered. The highlight of 2006 was the reappearance of Wood Frogs (Rana sylvatica) in Hendrie Valley. At the same time Tree Frogs (Hyla versicolor) have yet to recolonize the area. Partners: Bird Studies Canada



#### **Turtles**

Six species of turtles remain within the our sanctuaries, four of which are listed Species at Risk, and three of which are extremely rare on the property. Turtle monitoring in Westdale Inlet (Cootes Paradise) found Map Turtle (Grattemys geographica), Painted Turtle (Chrysemys picta margi) and Snapping Turtle (Chelydra serpentina), while at the back of Cootes Paradise in West Pond many Snapping Turtles were again located along with several released non-native Red-eared sliders (Trachemys scripta elegans). Blandings Turtles (Emydoidea blandingi) were also noted basking in two locations during the spring. Young Map Turtles have also been noted emerging from the turtle nesting beds in the Laking Garden. Partner: Environment Canada

## FISHERIES BIOLOGY AND HABITAT MANAGEMENT

At the Fishway a total of 92,977 fish of 33 different species were documented in 2006, while 5,356 non-native fish (carp, goldfish, and carp/goldfish hybrids) were caught in the cages and returned to the Harbour. Until carp exclusion began in 1997, native fish and wildlife were rare and several species had been eliminated from the marsh. The total number of native fish has increased remarkably since the project began: most species have increased by a factor of four. Carp numbers remained similar between 2005 and 2006, while down substantially from 1997. Over the past five years adult carp attempting to enter Cootes Paradise for spawning and feeding has decreased by more than 20,000 fish.

Fish mortality in the Harbour during the winter continues to be substantial across species despite recovery efforts. The most common cause is toxic levels of ammonia in the deeper waters of the Harbour. During the winter of 2006, substantial fish mortality also occurred below the Wastewater Treatment Plant at the west end of Cootes Paradise. Again toxic levels of ammonia were the suspected cause.

## Rare Fish Species Encountered in 2006

Bigmouth Buffalo (Ictiobus cyprinellus; nationally listed Special Concern): three individuals recorded in Sunfish Pond, one of our rarest fish (none found in 2004). Spotted Gar (Lepisosteus oculatus; nationally listed as Threatened): a single specimen at the Fishway, the first officially recorded although suspected historically. Partners: Environment Canada, McMaster University, Bay Area Restoration Council, Fisheries and Oceans Canada, Hamilton Harbour Remedial Action Plan, Canadian Centre for Inland Waters

## **RESTORATION PROJECTS**

## **Aquatic Plantings**

Over 13,000 wetland plants were planted at Cootes Paradise in 2006. The primary area of focus was cattail (*Typha sp.*) planting at the mouth of Desjardins Canal/Spencer Creek. A secondary focus was in Long Valley marsh on the north Shore of Cootes Paradise, where a variety of wetland species were planted following the elimination of invasive manna grass (Glyceria maxima) Partners: Environment Canada, and Bay Area Restoration Council

## Southern Wild Rice (Zizania aquatica) Reintroduction

The important native annual aquatic plant exists primarily in enclosures in large populations in Hopkin's Bay and West Pond. In 2006 we saw its first emergence in Long Pond. Partners: Dr. Peter Lee, Lakehead University, Thunder Bay

## Princess Point Earth Day Planting

Approximately 1,500 shoreline shrubs consisting of six species were planted in April by over 250 volunteers as part of the ongoing shoreline recovery and in an effort to dissuade Canada Geese.

Partners: Earth Day Hamilton, Bay Area Restoration Council

## Grindstone and Spencer Creek Channels

Maintenance and recovery of channel shape through removal of debris and beaver dams, allowed for bank stabilization while facilitating spawning fish migrations. Partners: Hamilton Conservation Authority

## Spencer Creek Floodplain Reconnection

Reconnection of the creek to its floodplain, with flow into West Pond and Hopkin's Marsh, has led to habitat improvement in the floodplain and substantial improvement of water quality entering Cootes Paradise via West Pond. Partners: Hamilton Conservation Authority

## Carroll's Bay Nature Sanctuary

Diverse rare plant and animals occur in Carroll's Bay. In 2006, efforts focused on the installation of seasonal floating signage to mark sensitive portions off-limits to motorized vehicles. Water quality, while improved, remains poor as invasive carp remain dominant.

Partners: LaSalle Park Marina, Environment Canada, Hamilton Harbour Remedial Action Plan



## TERRESTRIAL HABITAT MANAGEMENT AND RESTORATION

Royal Botanical Gardens' Nature Sanctuaries include a wide diversity of terrestrial habitats as well as wetlands. These range from the eastern tip of Ontario's Carolinian forest zone to remnant prairies and oak savannahs. Stewardship of these properties includes monitoring and rare species recovery, documenting wildlife populations, active ecological restoration, and control measures for invasive species.

#### MONITORING

## Hickory Island

Monitoring following vegetation destruction by a large colony of Double-crested Cormorants (Phalacrocorax auritus) documented how vegetation responds as cormorants move away. The cormorant colony declined to six nests in 2006. Limited vegetation recovery included common milkweed (Asclepias syriaca) and staghorn sumac (Rhus typhina).

#### Sassafras Point

Quantitative monitoring of Sassafras point continued in 2006 to assess the recovery of tallgrass plant species and status of invasive plant species following the 2004 prescribed burn. Findings include an increase in species richness and a decrease in the number and percent cover of invasive garlic mustard (Alliaria petiolata) compared to conditions in 2004.

## Odonate (Dragonfly and Damselfly) Count

Abundance and diversity of dragonflies and damselflies are important indicators of wetland habitat health. The 2006 Odonate count was limited to the stations established at Cootes Paradise (Desjardins Canal and Cootes West). A total of 11 species were recorded during the 2006 event, compared to 20 individual species identified in the same location in 2005.

#### Trailwatch

Trailwatch, the volunteer program to monitor the condition of Royal Botanical Gardens' nature trails, continued in 2006. Partners: Auxiliary of Royal Botanical Gardens

## **RESTORATION PROJECTS**

## Prescribed Burns at Princess Point Savannah and York Boulevard Prairie

Two successful controlled burns were conducted in May 2006 to promote the regeneration of regionally rare and uncommon tallgrass prairie and savannah species and to control the spread of invasive vegetation.



#### **INVASIVE SPECIES CONTROL**

## **Invasive Plant Control**

As part of our ongoing red mulberry (*Morus rubra*) recovery activities, a project was undertaken to eradicate white mulberry (*Morus alba*), an invasive tree that hybridizes with the endangered red mulberry. Thirteen trees were located, mapped, and removed from Rock Chapel and the North Shore of Cootes Paradise.

Partners: Ontario Ministry of Natural Resources

## Nuisance Wildlife Control

This ongoing program monitors and humanely controls populations of Canada Goose (*Branta canadensis*) and nonnative Mute Swans (*Cygnus olor*). Oiling of eggs prevented the hatching of 485 Canada Goose eggs and 36 Mute Swan eggs in 2006.

Partners: Canadian Wildlife Service, City of Hamilton, McMaster University

## FIELD BOTANY AND HERBARIUM

Documenting the diversity of plant life within Royal Botanical Gardens' Nature Sanctuaries has been a major focus since the 1950s. Royal Botanical Gardens' herbarium, known internationally as HAM, includes approximately 80,000 plant specimens ranging from historic horticultural collections to the inventory of free-living plants within the sanctuaries. Natalie Iwanycki was hired in mid-2006 to succeed Carl Rothfels as field botanist and herbarium curator. Natalie holds a Master's degree in forestry and comes to Royal Botanical Gardens from the Toronto Region Conservation Authority. She is an expert in the identification of plants of Ontario and in the study and management of natural areas.

## Herbarium Development

Over 400 new plant specimens were added to the herbarium in 2006. Six additional herbarium cabinets were acquired to accommodate the increasing collection of wild and horticultural specimens. Three new volunteers from the Auxiliary assisted with herbarium activities including specimen curation and populating the herbarium database. Of the 80,000 specimens contained in the collection, 21,000 are now included in the HAM database, including all of the wild plants collected from Royal Botanical Gardens and from the regional municipalities of Hamilton-Wentworth and Halton, and all provincially rare plants collected from Ontario. *Partners*: The Ontario Trillium Foundation, The Auxiliary of RBG

## Flora of Royal Botanical Gardens' Nature Sanctuaries

Since the 2003 Checklist of the Spontaneous Flora of Royal Botanical Gardens' Nature Sanctuaries was published, fifty-six (56) newly discovered species have been added to the list making the grand total of vascular plant species for our Nature Sanctuary properties 1160. The majority of the species not previously reported from our properties are of non-native origin and were discovered by C. J. Rothfels, the Gardens' field botanist and herbarium curator from 2002 to 2006. These new findings are represented by voucher specimens within Royal Botanical Gardens' herbarium collection (HAM).

The significance of the total number of plant species on the checklist was recognized in 2006 when this number was

compared to the Ontario and Canada checklists, and to other protected areas in Canada. Royal Botanical Gardens' Nature Sanctuaries include approximately 23 percent of all of spontaneous flora of Canada, and 38 percent of the flora of Ontario. For the size of the sanctuaries this represents nearly three times as many vascular plants as would be expected in comparison to other parks and protected areas in Canada.

## Flora of Ontario DNA-Barcoding Plant Collection

Vascular plant collection for the University of Guelph's Flora of Ontario DNA Barcoding Project began in the summer of 2006. Our nature sanctuaries were chosen as a focal point for plant collection due to the richness of vascular plant species found here. *Partners*: Dr. Steven Newmaster, University of Guelph

## **PLANT TAXONOMY**

Taxonomy is the science of naming organisms and working out their relationships with close relatives. Royal Botanical Gardens' plant taxonomist, Dr. James Pringle, has been a leading figure in plant taxonomy in North America for over forty years.

Flora of North America and Taxonomy of the Gentian Family Royal Botanical Gardens contributed manuscripts on taxonomy of the Gentianaceae and conducted research in the Missouri Botanical Garden herbarium and library.

## Field Taxonomy and Education

Staff led trips for the annual Wildflower Pilgrimage of the Hamilton Naturalists' Club and research field trips in western North Carolina, and taught an undergraduate course in plant taxonomy for Ontario Universities field course program.

## **RBG's LIBRARY AND ARCHIVES**

## Library Development

Volunteers from the Auxiliary managed library services in 2006. A significant portion of the monograph collection (books) was placed into storage in 2005 pending decisions about redevelopment. Not affected were serials (journals and other regular publications), Canadian Centre for Historic Horticultural Studies (CCHHS) and Royal Botanical Gardens' own archives.

## Royal Botanical Gardens Archives

The archives provided valuable historical documents to staff and the board in 2005, including material for Royal Botanical Gardens' Mandate Review committee; many others also used archival materials, (especially photographs), including editors of Dr. Laking's book love, sweat and soil: A history of Royal Botanical Gardens from 1930 to 1981.

## Centre for Canadian Historical Horticultural Studies (CCHHS) Archives

Researchers made use of many archival resources in 2005, including The Isabella Preston papers. Writers from Canadian Florist Magazine used documents and photographs for 100th anniversary publication. Specialists from Burlington's Ireland House Museum researched development of an 1830s garden.

## CANADIAN NATIONAL FOCAL POINT — UN **GLOBAL STRATEGY FOR PLANT CONSERVATION**

The national focal point for the Global Strategy for Plant Conservation (GSPC) provides information services and awareness building on the GSPC in partnership with Environment Canada's Biodiversity Convention Office. The focal point was formally established at the Gardens in July 2006 through a Memorandum of Understanding with Environment Canada. Partners: Biodiversity Convention Office of Environment Canada, CBCN

## **CANADIAN BOTANICAL CONSERVATION NETWORK**

Canadian Botanical Conservation Network was established in 1995 to promote the role of botanical gardens in plant conservation and sustainable development, through about 20 member institutions across Canada.

## Investing in Nature — A Partnership for Plants in Canada

This Canada-wide project (one of 16 around the world) draws together education and conservation specialists from botanical gardens and arboreta across Canada, providing new resources for their programs.

Partners: Botanic Gardens Conservation International (BGCI) and HSBC Holdings plc; Museum Assistance Program, Department of Canadian Heritage

## The North American Botanic Gardens Strategy for Plant Conservation

Partners established North America-wide targets for botanical gardens in conservation and sustainable development, under the themes of UN's Global Strategy for Plant Conservation. This document was prepared as a publication for printing in early 2007, in English, French and Spanish.

Partners: BGCI, American Public Gardens Association (APGA), US Center for Plant Conservation, Association of Botanical Gardens of Mexico

## Genetic Markers in Conservation and Biodiversity Studies

This project involves the application of genetic methods and a pilot project on gene banks in conservation of rare plants, with focus on endangered wood-poppy (Stylophorum diphyllum), is an ongoing project.

Partners: Professor Brad White, Natural Resources DNA Profiling and Forensics Centre, Trent University, Wood-Poppy Recovery Team, Endangered Species Recovery Fund, George Weston Limited

## RESEARCH PARTNERSHIPS

## Research Partnership with University of Guelph

A research partnership with University of Guelph was formalized in March 2006. The agreement includes facilitating new projects and working together on an annual symposium on the importance of green space and plant diversity to Ontario. The first symposium, Shades of Green: Exploring Biodiversity, Human Values and Urban Planning, was scheduled for 2007. Research projects under the partnership began in 2006 with Royal Botanical Gardens' nature sanctuaries being chosen as one of the key field sites for the Biodiversity Institute of Ontario's DNA Barcoding survey for the Flora of Ontario.

## **EXTRAMURAL RESEARCHERS**

## Pollination Biology of Wild Roses at Rock Chapel

Work continued on this 2004 project to study of breeding systems of wild Rosa species and potential pollinators, at Royal Botanical Gardens' Rock Chapel.

Team: Victoria MacPhail (Graduate Student); Dr. Peter Kevan (Supervisor) Environmental Biology Dept., University of Guelph

## Erindale College Archaeological Field School at Princess Point

Archaeological excavations of ancient indigenous camp sites at Princess Point were a continuation of an ongoing research program seeking evidence of occupation from about 2,000 to 400 years ago.

Team: Dr. Helen R. Haines and students, Anthropology Department, University of Toronto at Mississauga

## McMaster University Archaeological Field School on Cootes Paradise North Shore

Archaeological excavations of ancient indigenous camp sites on the northern shore of Cootes Paradise on the site of the Royal Botanical Gardens Nursery continued.

Team: Dr. Scott Martin and Students, Anthropology Department, McMaster University

## Seed Collection for Provincial Trees for Tomorrow Program

Seeds were collected from native trees at Royal Botanical Gardens' Arboretum to be used in reforestation programs for natural lands in southwestern Ontario.

Team: David Depuyat, Ron Thayer, Mark Emery Elgin, Oxford and Middlesex Stewardship Committee, Ontario Ministry of Natural Resources, Aylmer

## McMaster University Animal Behaviour Field Course

The team examined foraging behaviour of chickadees studied along Royal Botanical Gardens' nature trails.

Team: Dr. Margo Wilson and students, Psychology Department, McMaster University, and students

## Study of Feeding Ecology of Snapping Turtles in Cootes Paradise

A radio-telemetry and mark-recapture study of Snapping Turtles took place in Cootes Paradise. The study was designed to provide information on feeding patterns relevant to accumulation of environmental toxins.

Team: Dr. Shame DeSolla, Environment Canada

## DEVELOPMENT — REACHING OUT

Lisa Dodd, Director of Development

The 2005 Mandate Review committee's report, *Fresh Start*, gave the development department its focus and marching orders to connect and reengage with former members, donors and supporters as well as reaching out to potential new supporters.

How was this stewardship work addressed? From a membership perspective, data bases that had been allowed to deteriorate were updated, renewals sent, memberships processed and member benefits redefined. The turn around was almost immediate with membership increasing from 4,659 in June 2006 when the work commenced to 5,554 at December 31, 2006.

Good news stories, financial results and frank discussions of continuing challenges were shared with past and prospective supporters, in person, by mail editorially and through speaking engagements. In June 2006 we informed stakeholders that the commitment to three year transitional funding of \$3.85 million had been received from our core funders, the Province of Ontario, Region of Halton and City of Hamilton. The receipt of these funds enabled essential work at Royal Botanical Gardens, including that of Development, to proceed.

Tribute and memorial giving, once a major source of funds and part of an overall Planned Giving program at the Gardens, was reorganized and reactivated with very positive results.

In October 2006, more than one hundred supporters attending a Stewardship breakfast heard a dynamic, thought-provoking presentation, Royal Botanical Gardens – Paradise on the Edge, delivered by keynote speakers, Mark Runciman, executive

director, and Dr. David Galbraith, head of science and

interim head of conservation.

Protecting Paradise, a new grass-roots annual appeal in support of two of Royal Botanical Gardens' mandated areas, Conservation and Science, was successfully launched in November 2006. The Appeal raised over \$100,000 in just six weeks. It also helped us tell the Royal Botanical Gardens story and update data bases. Planning for a new spring appeal, Nurturing Nature, in



Royal Botanical Gardens, in conjunction with GO Transit, implemented an ambitious restoration project for the Sunfish Pond embankment and associated parts of the Valley Inn area of our Hendrie Valley Nature Sanctuary.

support of Horticulture and Education began. All print materials were rewritten and our website updated to accept online donations and to better describe philanthropic opportunities.

A new special event committee, under the leadership of well-known community organizers Linda Brown and Louise Haac, was struck to organize the May 3, 2007 Steel Magnolia, Royal Botanical Gardens' signature fundraising event.

In December, Mike Wallace, MP for Burlington and the Honourable Caroline Di Cocco, Ontario Minister of Culture, joined Terry Yates, Chairman of the Board of Directors and Mark Runciman, executive director, to announce their renewed support of Royal Botanical Gardens through the Canada-Ontario Infrastructure Program (COIP). With the \$4.6 million commitment from COIP and \$7.1 million in private donations, an exciting capital development plan of \$11.7 million was announced.

With eight months of concerted effort the development department ended the year meeting budget targets for 2006, but perhaps more importantly laying a solid foundation from which to grow.

# ROYAL BOTANICAL GARDENS (A corporation without share capital)

## FINANCIAL STATEMENTS FOR THE YEAR ENDED DECEMBER 31, 2006

AUDITOR'S REPORT

To the members of Royal Botanical Gardens

We have audited the statement of financial position of Royal Botanical Gardens as at December 31, 2006, and the statements of operations, changes in net assets and cash flows for the year then ended. These financial statements are the responsibility of the organization's management. Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audit in accordance with Canadian generally accepted auditing standards. Those standards require that we plan and perform an audit to obtain reasonable assurance whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation.

In our opinion, these financial statements present fairly, in all material respects, the financial position of the organization as at December 31, 2006 and the results of its operations and its cash flows for the year then ended in accordance with Canadian generally accepted accounting principles. As required by the Corporations Act (Ontario), we report that, in our opinion, these principles have been applied on a basis consistent with that of the preceding year.

Brondon SAssocile

Brownlow & Associates Chartered Accountants Licensed Public Accountants Ancaster, Ontario March 15, 2007

(The accompanying notes form an integral part of these financial statements)

# ROYAL BOTANICAL GARDENS (A corporation without share capital)

# STATEMENT OF FINANCIAL POSITION AS AT DECEMBER 31, 2006

ASSETS	2006	2005
CURRENT ASSETS		
Cash and cash equivalents	\$ 1,775,914	\$ 515,73 0
Short-term investments, at cost (note 3)	7,896,442	3,585,925
Accounts receivable	328,740	195,282
Inventory	105,138	153,824
Prepaid expenses	119,075	26,828
Other assets (note 13)	14,746	14,746
	10,240,055	4,492,335
INVESTMENTS, AT COST (note 3)	5,822,869	8,702,504
CAPITAL ASSETS, NET (note 4)	12,323,531	13,123,043
CALITAL ASSETS, NET (Hote 4)	12,323,331	13,123,043
	\$ 28,386,455	\$ 26,317,882
<b>LIABILITIES AND NET ASSETS</b> CURRENT LIABILITIES		
Accounts payable	\$ 806,570	\$ 1,109,850
Deferred operating contributions (note 5)	5,011,378	3,094,941
	4,204,791	3,774,422
DEFERRED CAPITAL CONTRIBUTIONS (note 6)	20,077,049	19,686,070
	25,894,997	23,890,861
NET ASSETS		
Unrestricted	(338,396)	(386,819)
Investment in capital assets (note 8)	569,433	627,555
Endowments (note 9)	2,022,400	1,983,137
Board restricted funds (note 10)	238,021	203,148
	2,491,458	2,427,021
	\$ 28,386,455	\$ 26,317,882

Commitments and contingencies (note 14)

## ROYAL BOTANICAL GARDENS (A corporation without share capital)

## STATEMENT OF OPERATIONS FOR THE YEAR ENDED DECEMBER 31, 2006

REVENUE	2006	2005
Operating grants		
Province of Ontario - Ministry of Culture	\$ 1,912,003	\$ 2,334,755
City of Hamilton	558,042	555,862
Regional Municipality of Halton	624,365	594,945
Transition Funding	1,360,000	
	4,454,410	3,485,562
Amortization of deferred capital contributions (note 6)	924,982	936,419
Amortization of self funded capital assets	66,169	137,965
Investment income (note 7)	287,686	102,880
GST recovery from prior periods	-	245,808
Admissions	302,349	304,944
Donation from Auxiliary of the Royal Botanical Gardens (note 11)	48,121	37,000
Membership fees and donations (note 7)	649,242	1,293,672
User fees and other income (note 7)	2,211,669	2,105,703
	8,944,628	8,649,953
EXPENSES		
Operations and maintenance		
Gardens, parklands and sanctuaries	1,768,770	1,808,446
Buildings and equipment	1,540,016	1,649,560
Amortization of capital assets (note 8)	991,151	1,074,385
	4,299,937	4,532,391
Scientific and research program	498,311	613,848
Educational program	543,879	415,677
Administration	1,415,732	1,656,627
Development and membership	306,446	100,716
Other programs and projects	442,092	685,972
Marketing, admissions and sales	1,289,030	549,810
Investment management fees	1,289,030	52,805
investment management rees	8,896,205	8,607,846
	0,030,203	0,007,040
EXCESS (DEFICIENCY) OF REVENUES OVER EXPENSES FOR THE YEAR	\$ 48,423	\$ 42,107

## **ROYAL BOTANICAL GARDENS** (A corporation without share capital)

## STATEMENT OF CHANGES IN NET ASSETS FOR THE YEAR ENDED DECEMBER 31, 2006

		Investment		Board		
		in capital		restricted		
	Unrestricted	assets	Endowments	funds	Total	Total
		(note 8)	(note 9)	(note 10)	2006	2005
NET ASSETS,						
BEGINNING OF YEAR	\$ (386,819)	\$ 627,555	\$ 1,983,137	\$ 203,148	\$ 2,427,021	\$ 2,295,881
Excess (deficiency) of revenues	5					
over expenses for the year	48,423	-	-	-	48,423	42,107
Change in investment						
in capital assets (note 8)	-	(58,122)	-	-	(58,122)	-
Endowment contributions	-	-	-	-	-	-
Investment income allocations	-	-	202,677	34,873	237,550	87,714
Transfer	-	-	( 163,414)	-	(163,414)	1,319
NET ASSETS,						
END OF YEAR	\$ (338,396)	\$ 569,433	\$ 2,022,400	\$ 238,021	\$ 2,491,458	\$ 2,427,021

(The accompanying notes form an integral part of these financial statements)

# ROYAL BOTANICAL GARDENS (A corporation without share capital)

## STATEMENT OF CASH FLOWS FOR THE YEAR ENDED DECEMBER 31, 2006

Excess (deficiency) of revenues over expenses for the year Adjustments for:  - amortization of capital assets - amortization of deferred capital contributions - deferred capital contributions recognized as revenue - deferred operating activities - deferred operating contributions and interest - deferred capital assets - deferred capital	CASH PROVIDED BY (USED IN) OPERATING ACTIVITIES	2006	2005
- amortization of capital assets - amortization of deferred capital contributions - deferred capital contributions recognized as revenue - deferred operating contributions recognized as revenue - deferred operating contributions recognized as revenue - deferred operating contributions recognized as revenue - 57,500 - (34,872)  Net changes in noncash working capital balances related to operations - (480,299) - (505,228) - (28) - (28) - (28) - (28) - (28) - (29) - (37,909) - (379,094	Excess (deficiency) of revenues over expenses for the year	\$ 48,423	\$ 42,107
- amortization of deferred capital contributions - deferred capital contributions recognized as revenue - deferred capital contributions recognized as revenue - deferred operating contributions recognized as revenue - deferred operating contributions recognized as revenue - 57,500 - 34,872) - 910,411 - 600,025  Net changes in noncash working capital balances related to operations - Cash used in operating activities - 430,112 - 1,105,253  INVESTING AND FINANCING ACTIVITIES - Acquisition of capital assets - Contributions restricted for capital asset purchases and interest - 390,979 - (127,960) - Deferred operating contributions and interest - 1,858,937 - 343,429 - Net proceeds on disposal (purchases) of investments - (1,430,882) - (793,377) - Endowment contributions and investment income - 202,677 - 79,228 - Cash provided by investing and financing activities - 830,072 - (877,774)  INCREASE IN CASH AND CASH EQUIVALENTS DURING THE YEAR - 1,260,184 - 227,479  CASH AND CASH EQUIVALENTS AT END OF THE YEAR - \$15,730 - 288,251  CASH AND CASH EQUIVALENTS AT END OF THE YEAR - \$15,730 - \$89,483 - Cash equivalents - \$515,730 - \$89,483 - Cash equivalents - 1,260,184 - 426,247	Adjustments for:		
- deferred capital contributions recognized as revenue 57,500 (34,872) - deferred operating contributions recognized as revenue 57,500 (34,872) - deferred operating contributions recognized as revenue 57,500 (34,872) - 910,411 600,025  Net changes in noncash working capital balances related to operations (480,299) 505,228 - Cash used in operating activities 430,112 1,105,253  INVESTING AND FINANCING ACTIVITIES - Acquisition of capital assets (191,639) (379,094) - Contributions restricted for capital asset purchases and interest 390,979 (127,960) - Deferred operating contributions and interest 1,858,937 343,429 - Net proceeds on disposal (purchases) of investments (1,430,882) (793,377) - Endowment contributions and investment income 202,677 79,228 - Cash provided by investing and financing activities 830,072 (877,774)  INCREASE IN CASH AND CASH EQUIVALENTS DURING THE YEAR 1,260,184 227,479  CASH AND CASH EQUIVALENTS AT BEGINNING OF THE YEAR 515,730 288,251  CASH AND CASH EQUIVALENTS AT END OF THE YEAR \$1,775,914 \$515,730  Cash and cash equivalents are comprised of the following:  Cash equivalents \$1,260,184 426,247	- amortization of capital assets	991,151	1,074,385
Net changes in noncash working capital balances related to operations   910,411   600,025	- amortization of deferred capital contributions	(991,151)	(936,419)
Net changes in noncash working capital balances related to operations (480,299) 505,228 Cash used in operating activities 430,112 1,105,253  INVESTING AND FINANCING ACTIVITIES Acquisition of capital assets (191,639) (379,094) Contributions restricted for capital asset purchases and interest 390,979 (127,960) Deferred operating contributions and interest 1,858,937 343,429 Net proceeds on disposal (purchases) of investments (1,430,882) (793,377) Endowment contributions and investment income 202,677 79,228 Cash provided by investing and financing activities 830,072 (877,774)  INCREASE IN CASH AND CASH EQUIVALENTS DURING THE YEAR 1,260,184 227,479  CASH AND CASH EQUIVALENTS AT BEGINNING OF THE YEAR \$1,775,914 \$515,730  Cash and cash equivalents are comprised of the following: Cash \$515,730 \$89,483 Cash equivalents \$1,260,184 426,247	- deferred capital contributions recognized as revenue	804,488	454,824
Net changes in noncash working capital balances related to operations  (480,299) 505,228  Cash used in operating activities 430,112 1,105,253  INVESTING AND FINANCING ACTIVITIES  Acquisition of capital assets (191,639) (379,094)  Contributions restricted for capital asset purchases and interest 390,979 (127,960)  Deferred operating contributions and interest 1,858,937 343,429  Net proceeds on disposal (purchases) of investments (1,430,882) (793,377)  Endowment contributions and investment income 202,677 79,228  Cash provided by investing and financing activities 830,072 (877,774)  INCREASE IN CASH AND CASH EQUIVALENTS DURING THE YEAR 1,260,184 227,479  CASH AND CASH EQUIVALENTS AT BEGINNING OF THE YEAR 515,730 288,251  Cash and cash equivalents are comprised of the following:  Cash \$515,730 \$89,483  Cash equivalents 1,260,184 426,247	- deferred operating contributions recognized as revenue	57,500	(34,872)
Cash used in operating activities430,1121,105,253INVESTING AND FINANCING ACTIVITIESAcquisition of capital assets(191,639)(379,094)Contributions restricted for capital asset purchases and interest390,979(127,960)Deferred operating contributions and interest1,858,937343,429Net proceeds on disposal (purchases) of investments(1,430,882)(793,377)Endowment contributions and investment income202,67779,228Cash provided by investing and financing activities830,072(877,774)INCREASE IN CASH AND CASH EQUIVALENTS DURING THE YEAR1,260,184227,479CASH AND CASH EQUIVALENTS AT BEGINNING OF THE YEAR\$1,775,914\$515,730288,251CASH AND CASH EQUIVALENTS AT END OF THE YEAR\$1,775,914\$515,730Cash and cash equivalents are comprised of the following:\$515,730\$89,483Cash equivalents\$1,260,184426,247		910,411	600,025
Cash used in operating activities430,1121,105,253INVESTING AND FINANCING ACTIVITIESAcquisition of capital assets(191,639)(379,094)Contributions restricted for capital asset purchases and interest390,979(127,960)Deferred operating contributions and interest1,858,937343,429Net proceeds on disposal (purchases) of investments(1,430,882)(793,377)Endowment contributions and investment income202,67779,228Cash provided by investing and financing activities830,072(877,774)INCREASE IN CASH AND CASH EQUIVALENTS DURING THE YEAR1,260,184227,479CASH AND CASH EQUIVALENTS AT BEGINNING OF THE YEAR\$1,775,914\$515,730288,251CASH AND CASH EQUIVALENTS AT END OF THE YEAR\$1,775,914\$515,730Cash and cash equivalents are comprised of the following:\$515,730\$89,483Cash equivalents\$1,260,184426,247	Net changes in noncash working capital balances related to operations	(480 299)	505 228
INVESTING AND FINANCING ACTIVITIES  Acquisition of capital assets  Contributions restricted for capital asset purchases and interest  Deferred operating contributions and interest  Net proceeds on disposal (purchases) of investments  Endowment contributions and investment income  Cash provided by investing and financing activities  CASH AND CASH EQUIVALENTS DURING THE YEAR  Cash and Cash EQUIVALENTS AT BEGINNING OF THE YEAR  Cash and cash equivalents are comprised of the following:  Cash  Cash equivalents  Say, 429  Cash equivalents  (1,430,882)  (793,377)  (793,377)  Endowment contributions and investment income  202,677  79,228  830,072  (877,774)  ENCREASE IN CASH AND CASH EQUIVALENTS DURING THE YEAR  1,260,184  227,479  Cash and cash equivalents are comprised of the following:  Cash  Cash equivalents  1,260,184  426,247			
Acquisition of capital assets Contributions restricted for capital asset purchases and interest 390,979 Deferred operating contributions and interest 1,858,937 Net proceeds on disposal (purchases) of investments Endowment contributions and investment income 202,677 T9,228 Cash provided by investing and financing activities 830,072  INCREASE IN CASH AND CASH EQUIVALENTS DURING THE YEAR 1,260,184 227,479  CASH AND CASH EQUIVALENTS AT BEGINNING OF THE YEAR 515,730 288,251  CASH AND CASH EQUIVALENTS AT END OF THE YEAR \$1,775,914 \$515,730  Cash and cash equivalents are comprised of the following: Cash Cash equivalents 1,260,184 426,247		,	.,,
Contributions restricted for capital asset purchases and interest 390,979 (127,960)  Deferred operating contributions and interest 1,858,937 343,429  Net proceeds on disposal (purchases) of investments (1,430,882) (793,377)  Endowment contributions and investment income 202,677 79,228  Cash provided by investing and financing activities 830,072 (877,774)  INCREASE IN CASH AND CASH EQUIVALENTS DURING THE YEAR 1,260,184 227,479  CASH AND CASH EQUIVALENTS AT BEGINNING OF THE YEAR \$1,775,914 \$515,730  Cash and cash equivalents are comprised of the following:  Cash Cash equivalents 31,260,184 426,247	INVESTING AND FINANCING ACTIVITIES		
Deferred operating contributions and interest 1,858,937 343,429  Net proceeds on disposal (purchases) of investments (1,430,882) (793,377)  Endowment contributions and investment income 202,677 79,228  Cash provided by investing and financing activities 830,072 (877,774)  INCREASE IN CASH AND CASH EQUIVALENTS DURING THE YEAR 1,260,184 227,479  CASH AND CASH EQUIVALENTS AT BEGINNING OF THE YEAR 515,730 288,251  CASH AND CASH EQUIVALENTS AT END OF THE YEAR \$1,775,914 \$515,730  Cash and cash equivalents are comprised of the following:  Cash \$515,730 \$89,483  Cash equivalents \$1,260,184 426,247	Acquisition of capital assets	(191,639)	(379,094)
Net proceeds on disposal (purchases) of investments (1,430,882) (793,377) Endowment contributions and investment income 202,677 79,228 Cash provided by investing and financing activities 830,072 (877,774)  INCREASE IN CASH AND CASH EQUIVALENTS DURING THE YEAR 1,260,184 227,479  CASH AND CASH EQUIVALENTS AT BEGINNING OF THE YEAR 515,730 288,251  CASH AND CASH EQUIVALENTS AT END OF THE YEAR \$1,775,914 \$515,730  Cash and cash equivalents are comprised of the following: Cash \$515,730 \$89,483 Cash equivalents \$1,260,184 426,247	Contributions restricted for capital asset purchases and interest	390,979	(127,960)
Endowment contributions and investment income  Cash provided by investing and financing activities  ENCREASE IN CASH AND CASH EQUIVALENTS DURING THE YEAR  1,260,184  227,479  CASH AND CASH EQUIVALENTS AT BEGINNING OF THE YEAR  515,730  CASH AND CASH EQUIVALENTS AT END OF THE YEAR  \$1,775,914  \$515,730  Cash and cash equivalents are comprised of the following:  Cash  Cash equivalents  \$1,260,184  \$426,247	Deferred operating contributions and interest	1,858,937	343,429
Cash provided by investing and financing activities 830,072 (877,774)  INCREASE IN CASH AND CASH EQUIVALENTS DURING THE YEAR 1,260,184 227,479  CASH AND CASH EQUIVALENTS AT BEGINNING OF THE YEAR 515,730 288,251  CASH AND CASH EQUIVALENTS AT END OF THE YEAR \$ 1,775,914 \$ 515,730  Cash and cash equivalents are comprised of the following: Cash \$ 515,730 \$ 89,483 Cash equivalents \$ 1,260,184 426,247	Net proceeds on disposal (purchases) of investments	(1,430,882)	(793,377)
INCREASE IN CASH AND CASH EQUIVALENTS DURING THE YEAR 1,260,184 227,479  CASH AND CASH EQUIVALENTS AT BEGINNING OF THE YEAR 515,730 288,251  CASH AND CASH EQUIVALENTS AT END OF THE YEAR \$1,775,914 \$515,730  Cash and cash equivalents are comprised of the following: Cash \$515,730 \$89,483 Cash equivalents 1,260,184 426,247	Endowment contributions and investment income	202,677	79,228
CASH AND CASH EQUIVALENTS AT BEGINNING OF THE YEAR         515,730         288,251           CASH AND CASH EQUIVALENTS AT END OF THE YEAR         \$ 1,775,914         \$ 515,730           Cash and cash equivalents are comprised of the following:         \$ 515,730         \$ 89,483           Cash equivalents         1,260,184         426,247	Cash provided by investing and financing activities	830,072	(877,774)
CASH AND CASH EQUIVALENTS AT BEGINNING OF THE YEAR         515,730         288,251           CASH AND CASH EQUIVALENTS AT END OF THE YEAR         \$ 1,775,914         \$ 515,730           Cash and cash equivalents are comprised of the following:         \$ 515,730         \$ 89,483           Cash equivalents         1,260,184         426,247			
CASH AND CASH EQUIVALENTS AT END OF THE YEAR         \$ 1,775,914         \$ 515,730           Cash and cash equivalents are comprised of the following:         \$ 515,730         \$ 89,483           Cash equivalents         1,260,184         426,247	INCREASE IN CASH AND CASH EQUIVALENTS DURING THE YEAR	1,260,184	227,479
CASH AND CASH EQUIVALENTS AT END OF THE YEAR         \$ 1,775,914         \$ 515,730           Cash and cash equivalents are comprised of the following:         \$ 515,730         \$ 89,483           Cash equivalents         1,260,184         426,247			
Cash and cash equivalents are comprised of the following: Cash Cash equivalents S15,730 \$89,483 Cash equivalents S1,260,184 426,247	CASH AND CASH EQUIVALENTS AT BEGINNING OF THE YEAR	515,730	288,251
Cash and cash equivalents are comprised of the following: Cash Cash equivalents S15,730 \$89,483 Cash equivalents S1,260,184 426,247	CACH AND CACH FOUNDALENTS AT END OF THE VEAD	¢ 1 775 014	¢ 515 720
Cash       \$ 515,730       \$ 89,483         Cash equivalents       1,260,184       426,247	CASH AND CASH EQUIVALENTS AT END OF THE YEAR	\$ 1,775,914	\$ 515,/30
Cash equivalents 1,260,184 426,247	Cash and cash equivalents are comprised of the following:		
·	Cash	\$ 515,730	\$ 89,483
\$ 1,775,914 \$ 515,730	Cash equivalents	1,260,184	426,247
		\$ 1,775,914	\$ 515,730

(The accompanying notes form an integral part of these financial statements)

# NOTES TO THE FINANCIAL STATEMENTS FOR THE YEAR ENDED DECEMBER 31, 2006

### 1. DESCRIPTION

Royal Botanical Gardens is one of Canada's premier cultural, educational and scientific institutions, comprised of more than 1,100 hectares of horticultural display gardens, arboretum, woodlands, wetlands and 30 kilometres of trails. Royal Botanical Gardens receives financial support from the Ontario Ministry of Culture, the City of Hamilton (the "City"), the Regional Municipality of Halton, Royal Botanical Gardens' members, the Auxiliary of Royal Botanical Gardens (the "Auxiliary"), many corporations, foundations and individuals.

The Auxiliary is incorporated under the laws of Ontario as a separate corporation without share capital and was established to promote the objects and interests of Royal Botanical Gardens through volunteer service. The activities of the Auxiliary are undertaken with the approval of the Board of Directors (the "Board") of Royal Botanical Gardens and any profits are to be used by Royal Botanical Gardens. The accounts of the Auxiliary are not consolidated in these financial statements.

Royal Botanical Gardens has an economic beneficial interest in a Crown-controlled foundation, Royal Botanical Gardens Crown Foundation (the "Crown Foundation"), which is not consolidated in these financial statements. The principal objectives of the Crown Foundation are to solicit, receive and distribute money and other property to support the mission and activities of Royal Botanical Gardens. Royal Botanical Gardens is a registered charity under the Income Tax Act (Canada) and, as such, is exempt from income taxes.

#### 2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

These financial statements have been prepared in accordance with Canadian generally accepted accounting principles applied within the framework of the significant accounting policies summarized below:

## (a) Revenue Recognition

- (i) Grants are recorded as revenue when the related expenses have been incurred and the applications for the grants have been approved by the relevant government agencies. Grants, which have been received in advance of incurring the related expenses are included on the statement of financial position as deferred contributions.
- (ii) Unrestricted donations are recognized as revenue in the year in which they are received. Restricted donations are deferred and recognized as revenue in the year in which the related expenses are incurred
- (iii) Externally restricted contributions for depreciable capital assets are deferred and amortized over the life of the related assets. Externally restricted contributions for land are recorded as a direct increase in net assets invested in capital assets. Externally restricted capital asset contributions that have not been expended are recorded as part of deferred capital contributions on the statement of financial position.
  Self funded contributions for depreciable capital assets are deferred and amortized over the life of the related assets. Self funded capital asset contributions that have not been expended are recorded as part of investment in capital assets on the statement of financial position.
- (iv) Endowment contributions are recognized as direct increases in endowment net assets in the year in which they are received.

#### (b) Donations in kind

Donations in kind of \$10,015 (2005: nil) are recorded at their estimated fair market value at the date of donation and are included in "membership fees and donations" and "other income" in the statement of operations.

## (c) Investments

Investments are carried at cost, which includes reinvested interest, dividends and capital gains. Individual investments are written down in the year where there is deemed to be an impairment in value which is other than temporary.

## (d) Inventory

Inventory, which consists of items available for sale in Royal Botanical Gardens' gift shop, is valued at the lower of cost or market. Cost is determined on the first-in, first-out basis.

## (e) Capital assets

Capital assets are recorded at cost, except for donated assets, which are recorded at fair market value at the date of contribution. The fair market value of donated land at the date of contribution could not be determined and therefore the total 1,100 hectares of land have been recorded at a nominal value of \$9,428.

Amortization is provided on a straight-line basis over the estimated useful lives of the assets as follows:

Building	40 years
Mechanical equipment	20 years
Gardens and natural area infrastructures	20 years
Roadways and parking lots	20 years
Vehicles and equipment	5 years
Furniture and fixtures	10 years
Computer equipment	3 years

## (f) Use of estimates

The preparation of financial statements in conformity with Canadian generally accepted accounting principles requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenue and expenses during the reporting period. Actual amounts could differ from those recorded in the financial statements.

#### 3. INVESTMENTS

The investments consist primarily of pooled and money market funds. The total market value at December 31, 2006 was \$14,132,064 (2005: \$13,275,222). The combined rate of return (realized and unrealized) on these investments for the year ended December 31, 2006 was 6.9% (2005: 7.6%).

#### 4. CAPITAL ASSETS

Capital assets consist of the following:

		2000	
	Accumulated		
	Cost	Amortization	Net
Land (note 2)	\$ 9,428	-	\$ 9,428
Buildings	14,313,321	\$ 6,831,153	7,482,168
Mechanical equipment	2,445,835	1,024,000	1,421,835
Gardens and natural area infrastructures	3,862,419	1,528,471	2,333,948
Roadways and parking lots	1,644,047	917,217	726,830
Vehicles and equipment	1,102,030	1,018,688	83,342
Furniture and fixtures	873,233	611,530	261,703
Computer equipment	1,198,142	1,193,865	4,277
	\$ 25,448,455	\$ 13,124,924	\$ 12.323.531

2006

		2005	
	Accumulated		
	Cost	Amortization	Net
Land (note 2)	\$ 9,428	-	\$ 9,428
Buildings	14,301,488	\$ 6,473,469	7,828,019
Mechanical equipment	2,397,523	902,916	1,494,607
Gardens and natural area infrastructures	3,855,756	1,335,516	2,520,240
Roadways and parking lots	1,605,734	835,973	769,761
Vehicles and equipment	1,054,059	915,699	138,360
Furniture and fixtures	870,646	524,336	346,310
Computer equipment	1,162,183	1,145,865	16,318
	\$ 25,256,817	\$ 12,133,774	\$ 13,123,043

The change in net book value of capital assets was due to the following:

	2006	2005
Balance, beginning of year	\$ 13,123,044	\$ 13,818,334
Purchase of capital assets funded by deferred capital contributions	183,591	255,722
Purchase of capital assets internally funded	8,047	123,372
Amortization of capital assets	(991,151)	(1,074,385)
Balance, end of year	\$ 12,323,531	\$13,123,043

## 5. DEFERRED OPERATING CONTRIBUTIONS

The change in deferred operating contributions during the year consists of the following:

	2006	2005
Balance, beginning of year	\$ 3,094,941	\$ 2,786,385
Amount recognized as revenue during the year	(57,500)	(34,873)
Contributions received that are deferred to a subsequent year	1,481,349	188,375
Investment income allocation	492,588	155,054
Balance, end of year	\$ 5,011,378	\$ 3,094,941
~ ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (		
Deferred operating contributions consist of the following:	2006	2005
Externally restricted funds:		
Project Paradise (see below)	\$ 701,835	\$ 613,441
Dorothy Muriel Matson Fund	627,746	529,699
Dunington Grubb Fund	480,208	405,204
Barbara Laking Memorial	130,970	135,659
Stanley Smith Horticultural Fund	24,490	20,665
Anna Harvey Clematis Fund	12,956	10,932
Dr. Ronald Graham Fund	33,102	27,931
J. Douglas Watson Memorial	15,508	13,086
New World Species Fund	11,334	9,564
Dorothy Miller Fund	617,074	521,959
Mary Stedman	330,484	278,866
Ruth Stedman	512,545	41,195
Margaret Stedman	62,794	52,987
Sunfish Pond Restoration — CN Rail	400,000	-
Auxiliary Greenhouse	40,065	-
B. MacDonald Lilac Fund	50,000	-
Deferred operating grants	705,308	336,919
Other amounts related to operations	254,959	96,834
	\$ 5,011,378	\$ 3,094,941
	7 -1- : :1- 10	7 -1 1,- 11

## Project Paradise

The restoration of Cootes Paradise as part of the Fish and Wildlife Habitat Restoration project in Cootes Paradise and Grindstone Creek and the Hamilton Remedial Action Plan is still in process. The Project Paradise fund has been established by various donors to support this process.

## 6. DEFERRED CAPITAL CONTRIBUTIONS

Deferred capital contributions consist of the following:	2006	2005
Balance, beginning of year	\$ 19,686,070	\$ 20,295,625
Amortization of deferred capital contributions	(924,982)	(936,419)
Previously deferred amounts recognized as revenue during the year	-	(89,099)
Contributions received for capital purposes	581,084	148,442
Investment income on deferred capital contributions	734,877	267,521
Balance, end of year	\$ 20,077,049	\$ 19,686,070

Represented by:		
Deferred capital contributions (note 8)	\$ 11,754,098	\$ 12,495,489
Unspent capital contributions	8,322,951	7,190,581
	\$ 20,077,049	\$ 19,686,070
Deferred capital contributions consist of the following:	2006	2005
Deferred Capital Contributions	\$ 11,754,098	\$ 12,495,489
Deferred Capital Funding	340,518	-
Higginson Building	494,273	448,442
Higginson Fund	3,497,460	3,168,966
Garfield Weston	3,938,350	3,573,173
Phase One Capital Contributions	52,350	
·	\$ 20,077,049	\$ 19,686,070
7. REVENUE	2006	2005
Investment income:		
Investment income earned during the year	\$ 1,589,286	\$ 563,948
Allocation to deferred capital contributions	(734,877)	(267,521)
Allocation to deferred operating contributions	(492,588)	(155,054)
Allocation to endowment contributions	(39,262)	(38,493)
Allocation to Board Restricted Funds	(34,873)	
	\$ 287,686	\$ 102,880
Membership fees and donations:		
Membership fees	\$ 310,501	\$ 278,469
Donations	249,815	212,383
Estate Beguests	88,926	802,820
	\$ 649,242	\$ 1,293,672
User fees and other income:		
Facility rentals and catering	\$ 607,406	\$ 488,457
Education	435,788	303,294
Other, including youth employment projects	537,612	247,820
Previously deferred amounts recognized as revenue during the year	630,863	1,066,132
Treviously deferred difficultis recognized as revenue during the year	\$ 2,211,669	\$ 2,105,703
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8 INVESTMENT IN CAPITAL ASSETS	, , , , , , , , , , , , , , , , , , , ,	
		2005
The investment in capital assets consists of the following:	2006	
8. INVESTMENT IN CAPITAL ASSETS The investment in capital assets consists of the following: Capital assets, net Amounts financed by deferred capital contributions (note 6)		<b>2005</b> \$ 13,123,044 (12,495,489)

The change in investment in capital assets is calculated as follows:

	2006	2005
Excess of expenses over revenue		
Amortization of deferred capital contributions	\$ 924,982	\$ 936,419
Amortization of self-funded capital assets	66,169	137,965
Amortization of capital assets	(991,151)	(1,074,385)
	-	(1)
		_
Net change in investment in capital assets		
Purchase of capital assets	191,638	379,094
Amounts funded by deferred capital contributions	(183,591)	(255,721)
Purchases of self-funded capital assets	\$ 8,047	\$ 123,373
		_
Amortization of self-funded capital assets above:	(66, 169)	(137,965)
Reclassification of self-funded assets	-	14,972
Increase (decrease) in investment in capital assets	\$ (58,122)	\$ 379

#### 9. ENDOWMENTS

Contributions restricted for endowments consist of donations received by Royal Botanical Gardens where the endowment principal is required to remain intact. Accordingly, these amounts are classified as long-term investments. The investment income generated from the endowments must be used in accordance with the purposes established by donors. A policy has been established by the Board whereby the endowment funds are preserved from inflation by allocation of investment income. The provision for the year 2006 was established at 2% (2005: 2%).

	2006	2005
General endowment	\$ 20,000 \$ 20,000	
Woodland Garden Fund	621,381	609,197
Palmer Memorial Fund	186,425	182,769
Osborne Memorial Fund	69,219	67,861
Beth Parker Orchid Fund	30,366	29,770
Anne Elizabeth Powell Memorial	663,161	650,158
Albert Nind Scholarship Fund	27,691	27,149
A. Parker Orchid Lab	17,385	17,045
Dr. Robertson Medicinal Garden	54,122	53,060
Broman Land Trust	75,537	74,056
Elizabeth M. Lindley	257,113	252,072
	\$ 2,022,400	\$ 1,983,137

The statement of changes in net assets reflects a transfer of investment income in excess of the 2% inflationary adjustment interest from endowments to unrestricted to reflect the use of these funds in the current year in accordance with donor restrictions.

#### 10. BOARD RESTRICTED FUNDS

Net assets subject to Board restrictions represent amounts received by Royal Botanical Gardens that have been restricted for specific purposes by the Board. Generally, the Board will restrict bequests, donations and interest earned on these monies. These restricted amounts are not available for other purposes without approval of the Board.

Board restricted funds at December 31 consist of the following:

	2006	2005
General	\$ 223,275	\$ 188,402
Organizational	14,746	14,746
	\$ 238,021	\$ 203,148

#### 11. THE AUXILIARY OF ROYAL BOTANICAL GARDENS

The accounts of the Auxiliary are presented separately and are not consolidated in these financial statements. Due to the nature of the operations, all of the net assets of the Auxiliary represent unrestricted funds. As at December 31, 2006, the balance of unrestricted funds of the Auxiliary was \$198,725 (2005: \$272,445). During the year total cash receipts and balance transfers to Royal Botanical Gardens by the Auxiliary amounted to \$184,233 (2005: \$37,000). Of that balance a total of \$48,121 (2005: \$37,000) in unrestricted contributions were recognized as income, \$46,047 (2005: nil) was applied to capital purchases, \$40,065 (2005: nil) is held as deferred contributions restricted to a specified purpose, and \$50,000 was contributed towards the Phase One Capital Development Program. In addition, Royal Botanical Gardens provides facilities to the Auxiliary at no cost.

#### 12. ROYAL BOTANICAL GARDENS CROWN FOUNDATION

As at December 31, 2006, the Crown Foundation reported total assets of \$27,024 (2005: \$26,922). During the year, no funds were distributed from the Crown Foundation to Royal Botanical Gardens (2005: nil).

#### 13. OTHER ASSETS

Royal Botanical Gardens is the owner and beneficiary of life insurance policies purchased by certain members. The total face value of these policies was \$115,000 at December 31, 2006 (2005: \$115,000). The cash surrender value of these policies of \$14,746 (2005: \$14,746) is included in other assets on the statement of financial position.

#### 14. COMMITMENTS AND CONTINGENCIES

- (a) In the ordinary course of business, Royal Botanical Gardens may be contingently liable for litigation and claims with customers, suppliers and former employees. Management believes that adequate provisions have been recorded in the accounts where required. Although it is not possible to accurately estimate the extent of potential costs and losses, if any, management believes, but can provide no assurance, that the ultimate resolution of such contingencies would not have a material adverse effect on the financial position of Royal Botanical Gardens.
- (b) During the year Royal Botanical Gardens was named in a lawsuit claiming damages in the amount of \$2,000,000 for breach of contract. A counter claim has been filed with respect to this matter. As it is to early to determine the impact of these events no amounts have been recorded in the financial statements.



29th-annual Spring Plant Sale.



## THE AUXILIARY OF ROYAL BOTANICAL GARDENS

This year has seen a gradual regrowth and strategic positioning for Royal Botanical Gardens but, more importantly for us, a rejuvenation of Royal Botanical Gardens' relationship with the Auxiliary. Early 2006 was extremely challenging for anyone associated with the Gardens but, as the new vision, structure and management matured, the mission became a reality, with a renewed vigour for the Auxiliary in its support of Royal Botanical Gardens.

Sometimes, as volunteers, we become so focused on our particular areas of volunteering that we lose sight of the Auxiliary at large. Reviewing our achievements over the past year should make every one of us very proud!

This year, the Auxiliary undertook the task of publishing an historical account of Royal Botanical Gardens, initially published serially in articles written by Dr. Leslie Laking, the Auxiliary's Honourary President. In June the book love, sweat and soil: A history of Royal Botanical Gardens from 1930 to 1981 was released at a tribute luncheon. Friends, colleagues, family and volunteers crowded the magically decorated auditorium to pay homage to Dr. Laking for his years of dedication to Royal Botanical Gardens and unwavering support of the Auxiliary.

In partnership with Royal Botanical Gardens, a DVD About the Auxiliary was produced, illustrating the dedication of volunteers to the Gardens areas in which they work and capturing some of our history. It will be an added asset to our membership and placement team to attract and orient new members.

In 2006 Auxiliary volunteers committed more than 42,182 hours on a wide range of projects with approximately 50 percent of those hours dedicated to fundraising activities. As a result, in June of 2006 the Auxiliary was delighted to donate a special gift of \$100,000 to Royal Botanical Gardens in celebration of their revitalization projects. In addition, we later donated \$50,000 towards other Royal Botanical Gardens projects at the Nature Interpretive Centre and for educational programs.

Lesley Reid

Auxiliary President, 2006

Volunteers tending the beds of World of Botany, Hendrie Park Gardens.

## 2006 DONORS, SUPPORTERS AND CONTRIBUTORS

We are most grateful to everyone who supports Royal Botanical Gardens. Your generous contributions make possible the ongoing operation of this national treasure. Every effort has been made to ensure the accuracy of this list and we apologize for any errors or omissions. Please call 905-527-1158, extension 295 with any corrections. We also express our appreciation to those supporters whose names do not appear as they have chosen to remain anonymous.

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Main Newson Holdings Inc.

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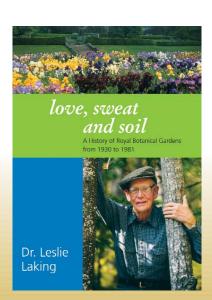
## Up to \$1,000

Ducks Unlimited Friends of Old Seed House Hamilton Naturalists' Club Hamilton Sod Lombard Canada Ltd. Winona Horticultural Society

# PUBLISHING AND PUBLICATIONS

In 2006 Royal Botanical Gardens staff contributed to new knowledge and professional practice through 15 publications outside the regular newsletter, Now @ The Gardens. Topics ranged widely and included updates on new breeds of lilacs, both English and French editions of the 2006 update to the Biodiversity Action Plan for Botanical Gardens and Arboreta in Canada and reports on plant diversity and systematics. Included here are contributions by Royal Botanical Gardens staff (in capitals) and those of Freek Vrugtman, Curator Emeritus.

Dr. Leslie Laking, Royal Botanical Gardens' Director Emeritus, published his landmark history of Royal Botanical Gardens from 1930 through 1981 in April 2006, entitled love, sweat and soil: A history of Royal Botanical Gardens from 1930 to 1981.



#### JENNIFER BOWMAN

The Cootes Paradise Fishway – 2005.

Project Paradise Field Season Review 2005

Pgs 20-27 Hamilton Harbour Remedial Action

Plan. ISSN #1703-6860

## DAVID GALBRAITH

Promoting plant conservation in North America. Cuttings [Newsletter of Botanic Gardens Conservation International] 3(1): 7-8.

## DAVID GALBRAITH and Laurel McIvor

2006. Conserving Plant Diversity: the 2010 challenge for Canadian Botanical Gardens. Investing in Nature: A Partnership for Plants in Canada. Royal Botanical Gardens (Hamilton, Ontario, Canada) and Botanical Gardens Conservation International (Richmond, Surrey, UK). 22 Pages. ISBN 1-905164-06-8 (in English)

2006. Conservation de la diversité des plantes: le défi de 2010 pour les jardins botaniques canadiens. Investing in Nature: A Partnership for Plants in Canada. Royal Botanical Gardens (Hamilton, Ontario, Canada) and Botanical Gadens Conservation International (Richmond, Surrey, UK). 22 Pages. ISBN 1-905164-07-6 (in French)

#### LESLIE LAKING\*

love, sweat and soil: A history of Royal Botanical Gardens from 1930 to 1981. Royal Botanical Gardens.

#### JAMES PRINGLE

Type localities of vascular plants first described from Ohio: Supplement. Sida 22: 765-767

#### TYS THEYSMEYER

Cootes Paradise 2005. Project Paradise Field Season Review 2005 Pgs 5-13. Hamilton Harbour Remedial Action Plan. ISSN #1703-6860.

Marsh Vegetation in the RBG Marshlands in 2005. Project Paradise Field Season Review 2005 Pgs 14-20. Hamilton Harbour Remedial Action Plan. ISSN #1703-6860.

Watershed Influences – 2005. Project Paradise Field Season Review 2005 Pgs 28-33. Hamilton Harbour Remedial Action Plan. ISSN #1703-6860.

#### FREEK VRUGTMAN\*\*

International Register and Checklist of Cultivar Names in the Genus Syringa L. (Oleaceae). Royal Botanical Gardens. Present update available upon request.

The Sagitova Lilac Originations. Review of the lilac originations of Mar'yam Galimova Sagitova (1923-2001) with statutory registrations in the USSR (3) and Kazakhstan(8); Lilac cultivar name registrations 2004; reprinted from HortScience 409(6): 1597. From the Registrar's Desk. Lilacs – Quart. Jour. 35(1): 10-13.

Syringa 'New Patriot' – a new, variegated lilac cultivar. History and description of the lilac 'New Patriot', discovered, named and introduced by Jimmy Krsnak. In: From the Registrar's Desk. Lilacs – Quart. Jour. 35(2): 54-55.

The RHS Mini Colour Chart, new and affordable. Review of the RHS Mini Colour Chart published in 2005, followed by an annotated review of earlier RHS Colour Chart editions. From the Registrar's Desk. Lilacs – Ouart. Jour. 35(2): 56-57.

#### FREEK VRUGTMAN\*\*

Neal S. Holland and his FAIRYTALE ™ Series of Lilacs. History and descriptions of the five cultivars released by the spring of 2006. From the Registrar's Desk. Lilacs – Quart. Jour. 35(3): 94-95.

Kees Sahin 1944 - 2006. Obituary. From the Registrar's Desk. Lilacs – Quart. Jour. 35(4): 116.

#### NOTES:

- \* Leslie Laking is Royal Botanical Gardens' Director Emeritus, having retired in 1981.
- \*\* Freek Vrugtman is Royal Botanical Gardens' Curator Emeritus, having retired in 1992, and continues to serve as the International Lilac Cultivar Registrar.



Hendrie Valley, wetland restoration

## **ROYAL BOTANICAL GARDENS STAFF 2006**

## **CEO'S OFFICE**

Executive Director

Mark Runciman

Executive Assistant to CEO's Office

Marlene Sutherland

## FINANCIAL AND ADMINISTRATIVE SERVICES

Director, Financial and
Administrative Services
Harold Johnson (from October)
Accounts Payable Assistant
Lynn Gallant
Accounts Receivable Assistant
Georgia Beck
Payroll and Benefit Administrator
Nancy Wills

#### **HUMAN RESOURCES**

Human Resources Generalist
Michael Tombolini
Ground Maintenance/Health and
Safety Manager
Sidney Gratton

#### **DEVELOPMENT**

Director, Development
Lisa Dodd
Head of Grants
and Research Initiatives
Catherine Arlein
Membership Services/
Development Coordinator
Kerri Withers

## PHYSICAL PLANT AND OPERATIONS

Manager, Physical Plant and Operations Josef Baumgartner Lead Hand Ken Fowler **Buildings Maintenance Technician** Timothy Mountain (to February) Kin Cheng (from May) Building Maintenance/Serviceman **Denis Pearson** Small Engines Mechanic Michael Thomson Custodians Ken Laidman Olga Bilechuk Jason Gordon

## HORTICULTURAL SERVICES Director, Horticultural Services

Peter Booker (to May)
Harry Jongerden (Acting) (from May)
Gardens Supervisor
Daniel Rose
Horticulturist/Curator of Collections
Alex Henderson (from November)
Plant Documentation/
GIS Coordinator (part-time)
Margaret Walton

GARDENERS:
Mediterranean Garden
Barry MacDonald
Karen Schut
Hendrie Park Gardens
James Koegler
Robert Kruizinga

Tim Schwenker Laking Garden Wavne Stalev Nurserv Sharon Duncan Lvall Rudderham Parklands Richard Maslanka Kirk Bell Rock Garden Michael Hall George Weston Jr. Peter Wickett Pest Management William Szenasi Equipment Operators/Handymen John De Zoete Michael Spence Gerald Maloney William Kolomas

### **RESEARCH AND NATURAL LANDS**

Head of Scientific Development

Interim Head of Conservation
Dr. David Galbraith, PhD
Plant Taxonomist
Dr. James S. Pringle, PhD
Field Botanist and Herbarium
Curator
Carl Rothfels (to May)
Natalie Iwanycki (from July)
Acting Natural Lands Steward
Carl Rothfels (to May)
Aquatic Ecologist
Tys Theysmeyer

Aquatic Ecologist Intern

Jennifer Bowman (to March)

Karla Spence-Diermair (from April)

Restoration Ecologist
Jennifer Bowman (from April)
Biologist-Hamilton Harbour Fisheries
Management Plan
Kellie McCormack (to May)

## MARKETING AND VISITOR EXPERIENCE

Director, Marketing and Visitor Experience Ross Halloran (from March) Director, Enterprise Initiatives Mia Wilkinson (to January) Manager, Enterprise Initiatives Angie van der Zalm (to May) Senior Special Events Planner Natalie Faria (to November) Special Events Coordinator Shelley Carley (May to July) **Debra Keown** (from November) Andrew King (from July) Alison Rath (from March) Wedding Coordinator Claudia Logan **Rentals Coordinator** Kerry Alldritt Manager, Visitor Services Vicki De Nardis Booking Agent/Receptionist Cindy Bailey Manager, Shop at the Gardens **Bonnie Collins** 

## **EDUCATION**

Head of Education Barbara McKean Education Course Administrator Louise Taylor Horticultural Therapy and Public Programs Coordinator
Nancy Lee-Colibaba
Nature Centre Manager
Ian Hendry
Camp and Youth
Program Coordinator
Jason van Veen (from June)
Outreach Education Coordinator
Karin Davidson-Taylor
(from October)

## ROYAL BOTANICAL GARDENS RESEARCH ASSOCIATES

**Dr. Sigal Balshine**, Psychology Department, McMaster University

**Dr. Susan Dudley**, Biology Department, McMaster University

**Dr. Peter Kevan**, Environmental Biology Department, University of Guelph

**Dr. James S. Pringle**, Plant Taxonomist, Royal Botanical Gardens

Dr. Thomas J. Schlereth,
Departments of History and
American Studies, University of
Notre Dame

**Dr. David Smith**, Department of Anthropology, University of Toronto at Mississauga

**Mr. Freek Vrugtman**, Curator Emeritus and Lilac Registrar, Royal Botanical Gardens



## 2006 QUICK FACTS

Royal Botanical Gardens is the largest botanical garden in Canada. Royal Botanical Gardens features within its 60 documented collections approximately 40,000 plants displayed in five major garden exhibition areas.

#### **HISTORY**

1930 — Received Royal Charter from King George V

1932 — Opened to the public

1941 — Established by an Act of the Provincial Legislature

#### CHARITABLE REGISTRATION NUMBER

13350 0850 RR0001

#### **VISITATION**

480,000 (approximate)
Paid visitors, school groups, conference attendees, trail users, etc.

#### **CORE PROGRAM AREAS**

Horticulture Conservation Education Science and Research

#### **EMPLOYEES**

Spring and summer: 145

Off season: 60 full-time (15 part-time)

## **MEMBERSHIP**

5,554 memberships (combined individual and family involving more than 10,000 individuals)

## **AUXILIARY VOLUNTEERS**

300 volunteers provided 42,182 volunteer hours

#### **ROYAL BOTANICAL GARDENS SIZE**

Total: 1,100 hectares

(2,700 acres or 11 square kilometres)

Cultivated Gardens:

121 hectares (250 acres)

Nature Sanctuaries:

971 hectares (2,450 acres)

Trails: 30 kilometres

#### **FUNDING**

Annual revenue: \$8,944,628 58.5% Self-generated revenue 27.8% Government of Ontario 6.6% City of Hamilton

7.1% Region of Halton

## HORTICULTURAL COLLECTIONS AND HIGHLIGHTS

8,000 taxa (different species and cultivars) in the permanent collection; maintains the International Lilac Registry

#### Rock Garden

100,000 spring flowering bulbs and 70,000 summer annuals

#### Arboretum

Features over 400 species and cultivars of lilacs, as well as extensive magnolia and crabapple collections

### Laking Garden

250,000 iris, peony and daylily blooms; ornamental grasses; as well as an extensive Perennial Garden and a Heritage Garden

#### Hendrie Park Gardens

The Gardens' largest garden area is noted for its collection of 2,000 antique and hybrid roses in the Centennial Rose Garden, as well as Woodland, Scented and Medicinal Gardens and World of Botany

#### Mediterranean Garden/RBG Centre

Two-storey indoor garden, features plant species from the world's five Mediterranean climate regions

#### **HERBARIUM**

80,000 specimens

# WILDLIFE SPECIES RECORDED AT ROYAL BOTANICAL GARDENS

Birds: 248 species Water birds: 38 species Mammals: 25 species Fish: 64 species Amphibians: 9 species

## PLANT SPECIES RECORDED AT ROYAL BOTANICAL GARDENS

1,108 species

## CULTURAL, SPECIAL EVENTS AND CONFERENCE FACILITIES

Annual events: Mediterranean Food & Wine Festival, Tulip Celebration, Lilac Celebration, Iris and Peony Celebration, Rose Celebration, Herb Fair, Dinner Theatre summer series, Tapas @ The Gardens, Red-Hot Jazz & Cool Blues, Paws in the Gardens

Meetings and conferences: hosted 55,660 people Weddings and receptions: 68 couples married at the Gardens

#### **FACILITIES**

## RBG Centre, 680 Plains Road West, Burlington

This administration, research and public learning facility houses the auditorium, classrooms, archives and herbarium, Mediterranean Garden, the children's Discovery Garden, The Garden's Café, Fountain Court Cafe and the Gardens' gift shop.

# The Nature Interpretive Centre, Arboretum, Hamilton

The NIC, our gateway to Cootes Paradise, features exhibits on our wetland restoration activities and is the hub of our formal education program and children's camps.

Rock Garden Teahouse and Turner
Pavilion Teahouse, Hendrie Park Gardens
Open seasonally, these areas provide
visitors with a quick lunch or snack.

#### INVESTMENT MANAGER

Jarislowsky, Fraser Ltd



680 Plains Road West, Burlington, Ontario L7T 4H4 P.O. Box 399. Hamilton Ontario L8N 3H8 Telephone: 905-527-1158, Fax: 905-577-0375

#### CHARITABLE REGISTRATION NUMBER:

13350 0850 RR0001

### ANNUAL REPORT PRODUCTION

COORDINATION/WRITING/EDITING Sherry Houston, Communications Manager

#### **CONTRIBUTORS:**

Catherine Arlein, Head of Grants and Research Initiatives Lisa Dodd, Director of Development Dr. David Galbraith, Head of Scientific Development, Acting Head of Conservation Harry Jongerden, Interim Director of Horticulture Barbara McKean, Head of Education Marie Minaker, Royal Botanical Gardens Archivist (volunteer) Dr. Jim Pringle, Plant Taxonomist Lesley Reid, 2006 President, Auxiliary Tÿs Theÿsmeÿer, Aquatic Ecologist

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Made with Green-e Certified Renewable Energy www.green-e.org

This project used 435.37 kg of 100% post-consumer waste paper.



 $\Delta \rightarrow$  9.22 trees preserved for the future



12.07 kg waterborne waste not created



14,819 litre wastewater flow saved



196 kg solid waste not generated



387 kg net greenhouse gases prevented



6,527,938 BTUs energy not consumed



201 kg air emissions not generated



30 cubic meter natural gas unused



or equivalent to not driving 772 km in an average car



or equivalent to planting 30 trees