

Science Alberta Foundation partners with educators, parents, communities, government and industry to develop and deliver resources that inspire children, youth and families in science, math, engineering and technology. Together, we are helping to instill an appreciation of science in a new generation of Albertans.

Our learning programs and resources are available to Albertans of all ages, in every corner of the province. We help build a science and innovation culture that contributes to Alberta's long-term success.



**Science Alberta Foundation**

Suite 260, 3512 – 33 Street N.W.  
Calgary AB T2L 2A6

Phone: 403-220-0077

Fax: 403-284-4132

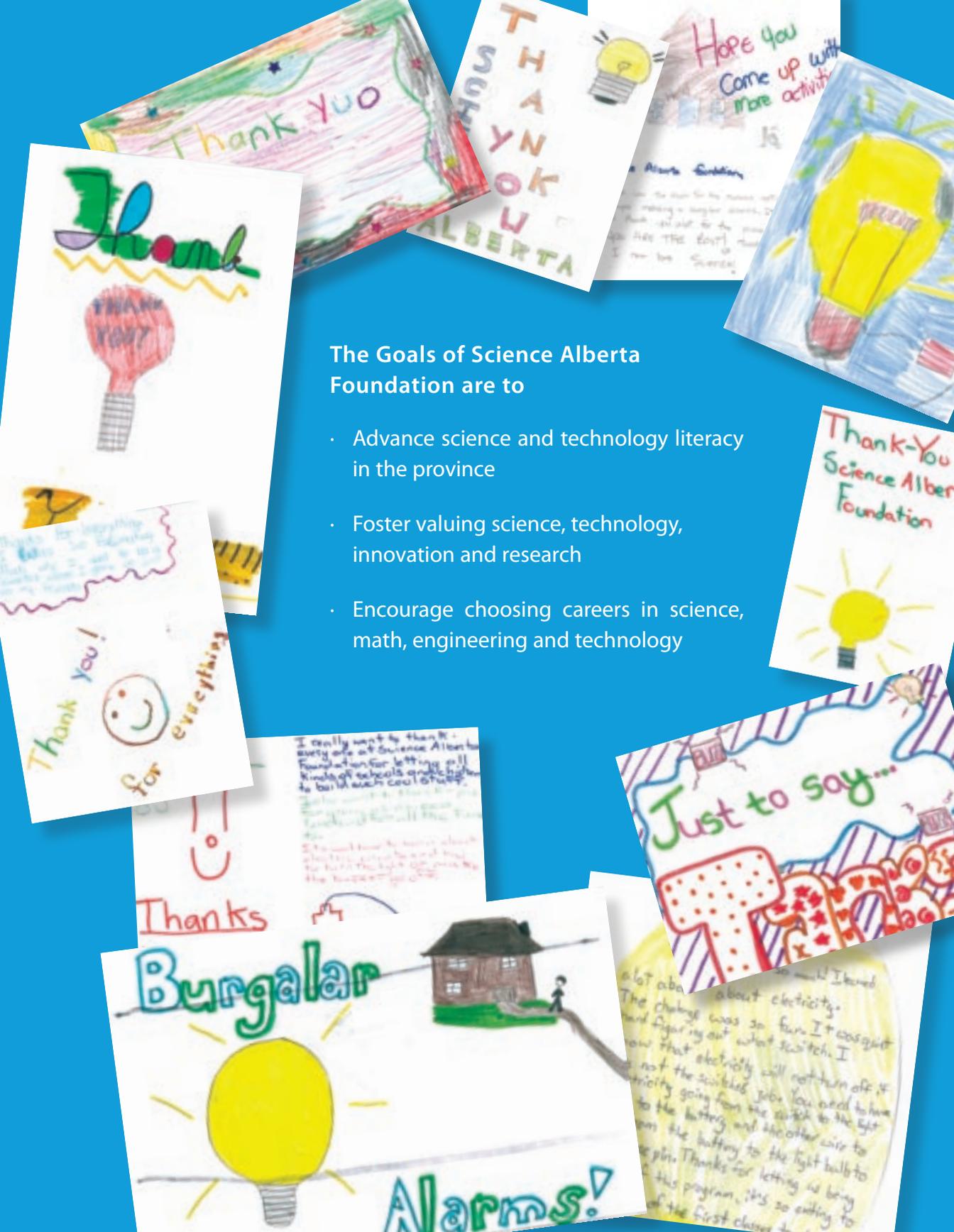
Email: [info@sciencealberta.org](mailto:info@sciencealberta.org)

Website: [www.sciencealberta.org](http://www.sciencealberta.org)  
[www.wonderville.ca](http://www.wonderville.ca)



# 15

*years*  
Innovation in Action 1990 – 2005



## The Goals of Science Alberta Foundation are to

- Advance science and technology literacy in the province
- Foster valuing science, technology, innovation and research
- Encourage choosing careers in science, math, engineering and technology

# SCIENCE ALBERTA FOUNDATION

## Our programs inspire minds to imagine the future

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## 2004-2005 HIGHLIGHTS



### Best Program Award for Ways of Knowing

#### Achievements & Awards

- Canadian Association of Science Centres selected Science Alberta Foundation's aboriginal science program as the best program in Canada. This program, entitled "Ways of Knowing" enables all children to appreciate science from an aboriginal perspective. Currently this program is comprised of five distinct crates with multiple copies, an aboriginal character, Haley Little Moccasin on our Wonderville.ca website along with three digital aboriginal science activities.
- Macromedia selected Wonderville.ca to be featured in its showcase section as an exemplar on using Flash and the web to provide creative, effective and engaging learning.
- Creators of Wonderville.ca invited to a prestigious "think tank" at Cornell University funded by the National Science Foundation, to discuss how to advance learning online and future applications.

#### Best Program Awarded by the Canadian Association of Science Centres: Ways of Knowing

We proudly celebrated the Best Program Award for Ways of Knowing in September 2004 and were honoured to have Premier Klein attend and Mrs. Klein speak on behalf of our partner, Alberta's Promise.



## 2004-2005 HIGHLIGHTS

### This Year at Science Alberta Foundation, we

- Developed six new crates, each with multiple copies, to bring the number of crates in circulation to 242
- Launched a professional learning program for teachers, Catalyst for the Future, which is provided in each crate and uses a mix of media to support workplace learning
- Enhanced Wonderville.ca with a new 3D-immersive interface
- Expanded Wonderville.ca with new digital and off-line activities, career videos, and fascinating science facts
- Launched classroom science challenges and a science game on Wonderville.ca
- Completed Carniville of Wonders, a new community exhibition for fairs and festivals
- Toured seven exhibitions/exhibits on alternative energy, forestry and the oil sands around the province
- Provided camp leaders across the province with crates full of activities especially designed for camp use
- Worked with Fort McMurray residents to plan and deliver the Wood Buffalo Festival of Science that attracted 7,500 attendees and reached over 30,000 people through the local media
- 2,452 volunteers enthusiastically provided 9,514 hours of their valuable time
- 2,178 teachers, librarians, interpreters, etc., worked with us to develop and deliver our programs - contribution invaluable!

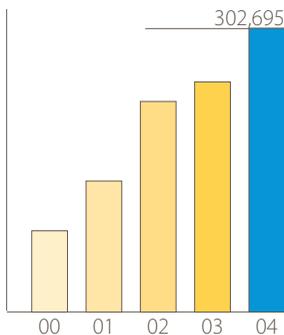


**Carniville of Wonders  
piques children's  
curiosity**

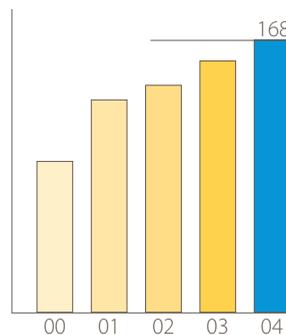
### Expanding Our Reach Across the Province

Science Alberta Foundation is committed to serving the entire province. We also are committed to providing quality programs to as many citizens of our province as possible – we know this is essential in order to have an impact.

#### Albertans Served



#### Communities Served



## MESSAGE FROM THE CHAIRMAN OF THE BOARD & C.E.O.

### **Innovation Today and Tomorrow**

2005 is a year of celebration! Alberta is celebrating 100 years as a province and Science Alberta Foundation is celebrating 15 years of ingenuity and creative collaborative programming that have contributed to the success of our province. Fifteen years ago, the founders of Science Alberta Foundation were concerned about Alberta's ability to compete in the high-tech global economy of the future. Today the need to successfully respond to emerging global competition is even greater.

As Chairman of the Board and CEO of Science Alberta Foundation, we are proud to present this annual report that describes the work accomplished in the past year. We continue to focus on three program areas: festivals of science, science crates for schools and community groups, and online activities at Wonderville.ca. These programs are effective, scalable, unique and leading-edge.

### **Collaboration and Sponsorship – Keys to Our Success**

With a small staff and a strategically diverse board, Science Alberta Foundation worked with volunteers, content experts, teachers, community leaders, librarians and a host of other Albertans to develop and deliver the best programs possible. The support of our many corporate sponsors was essential to do the work we do.

### **Accountability, Careful Planning and Robust Evaluation**

Science Alberta Foundation highly values accountability, efficiency, and getting results. Our spending priorities in 2004 – 2005 were program development and expansion. We are on track with our crate expansion plan and growth on Wonderville.ca was significant. New and creative ideas for festivals and advancing science awareness are in the beta phase. This program expansion has required good fiscal management to prepare for the anticipated escalation of costs. While we have set aside some funds in reserve, the ongoing support from the provincial government and the private sector will be critical to meeting the challenges ahead for Science Alberta Foundation and Albertans.

We also want to acknowledge the tremendous commitment and talent of the board and staff of Science Alberta Foundation over the past year. Their efforts have been integral to our success.

We invite you to review the accomplishments of the Science Alberta Foundation featured in this report. We look forward to your support in the coming years as we strive to advance science literacy and foster an understanding by all Albertans that science and technology are critical to our future success.



Gary Holden  
Chairman of the Board  
June 1, 2005



Arlene Ponting, Ph.D.  
Chief Executive Officer  
June 1, 2005

## 15 YEARS OF SCIENCE ALBERTA FOUNDATION

For the past 15 years, Science Alberta Foundation has worked diligently to develop and deliver science and technology literacy programs in an innovative way and in doing so has become a leader in the field in Canada.

**15 years ago Science Alberta Foundation...** We started with a mission to encourage youth to pursue careers in science and technology, to foster a scientifically literate citizenry and to foster an understanding that science and technology are everywhere and key to our quality of life and future prosperity. Our mandate was to do all of this in a creative, engaging and innovative way providing equal access to programs across the entire province.

**15 years of achievement...** Much has been accomplished, and many deserve credit. Science Alberta Foundation has built networks of volunteers and collaborators and continue to bring private sector support to this important enterprise. We have honed our programs to achieve the desired results. Alberta's students are doing well on international tests in science and math but this is a tenuous position and competition is fierce with many countries close behind. This is a competitive edge we must work hard to maintain.

**Crates...** We know that hands-on, relevant activities are an essential way to teach science and math. We have earned the trust of educators by providing bias-balanced content, incorporating the best teaching practices and by working shoulder-to-shoulder with the educational community. We also know that crates for camp providers, as well as guide and scout groups are important to support the leaders in making science and technology engaging in contexts other than the classroom. Crates are accessible to schools and community groups for a nominal fee – we have eliminated monetary barriers to accessing them. Our challenge now is to have sufficient supply.

**Online...** We have harnessed the power of the Internet to bring anytime, anywhere science learning to desktops in schools and homes. Our Wonderville.ca site is world class. 51% of the visitors stay for 60 minutes or more – this is the best evidence possible that youth are engaged, and with engagement comes learning.

**Festivals...** We have modified ideas from other jurisdictions to design science festivals utilizing various media channels to bring strong science messages to the public.

This is a year to celebrate the past but we must keep our eye on the future. Science and technology are the engines of prosperity.



### Our Evaluation Results

96% of students surveyed in Grades 9 to 12 learned about science and technology jobs through the crate program, and 87% believed that those jobs are interesting.

94% of the Grade 5 students surveyed said crate activities made them more interested in science class.

91% of teachers surveyed believed the crates increased student interest in science or technology.

*Proactive Information Services, May 2004*



**Crate:** Environmental E.R. **Volunteer:** David Pritchard, P. Geol. **Sponsor:** Dow Chemical Canada Inc.

“I enjoyed working with the development team explaining what we do and how we use different science disciplines to solve real problems. I was amazed to watch the crate evolve into a learning experience that is hands on and fun for students. The Environmental ER crate totally exceeded my expectations!”

– David Pritchard, P. Geol., Environmental Spill Response Manager, Volunteer Crate Expert

## PARTNERS AND COLLABORATORS

How does a small organization like Science Alberta Foundation develop our programs and initiate and facilitate wonderful festivals of science across the province? We don't do it alone. It is only possible because of the support of many volunteers and the financial support of organizations that care about and have a vested interest in the future of their community.

Designing and delivering innovative, relevant programs that feature current science and technology information and its applications takes many people. We are proud to collaborate with science experts, teachers, librarians, sponsors and contributors of all kinds to create and deliver our programs. One such volunteer is David Pritchard, P. Geol (pictured at left). David brought his valuable knowledge and work experience to one of our development teams.



### Where will the Jobs be?

In 2013, engineering and technology-oriented skills will be in highest demand.

*From the Future of Work study conducted by DBM Consulting Firm (2003)*



### Science Alberta Foundation and our partners celebrate one hundred years of innovation in science and technology with Innovation 2005

Science Alberta Foundation, in partnership with Western Economic Diversification Canada, Alberta Innovation and Science, the Alberta Lottery Fund, the Association of Professional Engineers, Geologists and Geophysicists of Alberta (APEGGA), TELUS, and Global Television, is celebrating Alberta's centennial this year by featuring a selection of inspirational scientific innovations that have occurred in Alberta over the past 100 years. Recommended by industry experts, these merited innovations cover a range of fields: engineering, forestry, agriculture, information technology and medicine. Innovation 2005 is featuring these science and technology innovations through a video series to be aired on Global Television, in radio and print newspapers across Alberta as well as in every school.

## 2004-2005 BOARD OF DIRECTORS

The Board of Science Alberta Foundation is comprised of community leaders who bring good governance, strategic thinking and accountability to the boardroom. Science Alberta Foundation is fortunate to have these community leaders volunteering their time to support our important work.

### **Executive Board Members**

**Chair:** Gary Holden, President & CEO, ENMAX Corporation, Calgary

**Vice Chair:** Ron Kuchinka, Retired, Former CEO, Spartan Controls, Calgary

**Secretary/Treasurer:** Barry Travers, Partner in Charge of Tax, KPMG Edmonton

**Government of Alberta Representative:** Dwight Dibben, Executive Assistant to the Minister, Alberta Innovation and Science, Edmonton

**CEO:** Dr. Arlene Ponting, Chief Executive Officer, Science Alberta Foundation, Calgary

*Back row: Heather Kennedy, Dwight Dibben, Keith McGregor, J. Greg Thomas, Ernie Tromposch, Gordon Olsen, Sid Shugarman*

*Front row: Paul Clark, Rod Lanier, Gary Holden, Arlene Ponting, Brad Zumwalt, Elsa Cade*

*Missing: Debbie Robert, Barry Travers, Gord Rosko, William Kondro, Ron Kuchinka*



**Board Members**

**Elsa Cade**, Science Educator, Lethbridge

**Paul Clark**, Director, Fuel Supply, TransAlta Utilities Corporation, Calgary

**Heather Kennedy**, Vice President, Human Resources and Community Affairs, Suncor Energy Oilsands, Fort McMurray

**William (Bill) Kondro**, Manager, Lloydminster Region Community Futures (Former Mayor of Lloydminster and Chair, Board of Lakeland College), Lloydminster

**Rod Lanier**, CEO, Neveridle Farms Ltd., Lethbridge

**Keith McGregor**, General Manager, Alberta Operations, Canfor, Grande Prairie

**Gordon Olsen**, President, Gordon Olsen Associates Inc., Calgary

**Debbie Robert**, Co-owner, L. Robert Enterprises Limited, Fort McMurray

**Gord Rosko**, Senior Manager, Public Affairs, GlaxoSmithKline, Edmonton

**Sid Shugarman**, Consultant, Science and Technology Edmonton Public Schools, Edmonton

**J. Greg Thomas**, Superintendent of Schools, Wild Rose School Division No. 66, Rocky Mountain House

**Ernie Tromposch**, Program Leader, Enterprise Project, Management Office, Nova Chemicals Corp., Red Deer

**Brad Zumwalt**, President, Veer Incorporated, Calgary

**Honorary Directors**

**Bernard A. Coady**, President, Coady Associates Ltd., Calgary

**James K. Gray**, Retired, Canadian Hunter, Calgary

**Bill Peters**, Chief Executive Officer, TELUS World of Science Calgary, Calgary

**Science Alberta Foundation Officers**

**Dr. Arlene Ponting**, CEO, Science Alberta Foundation, Calgary

**Janice Ryan**, CMA, Director of Finance and Administration, Science Alberta Foundation, Calgary

**2005: International Year of Physics**

In recognition of the International Year of Physics, Science Alberta Foundation launched *Galactic Enquirer*, a crate designed to encourage young teens to take an interest in the physics and technology involved in space exploration.

*This amazing resource was developed in collaboration with the Canadian Space Agency.*

## 2004-2005 DONORS, SPONSORS & FRIENDS

Science Alberta Foundation highly values and depends on the financial support and in-kind contributions that we receive from the private sector.

Our learning team welcomes employees from these companies and organizations to serve on our advisory committees. We are committed to ensuring that our programs present accurate and current science and math in a relevant way. Our sponsors, who partner with Science Alberta Foundation, help us meet that requirement.

For example, in 2004, our learning team worked with Alim Charania to develop a new crate on finance that aligns tightly with the high school math curriculum. Thanks are extended to Alim with the RBC Financial Group, through the RBC Foundation.

**“This crate exceeded my expectations by far! I couldn’t believe it! The product itself was phenomenal and I was speechless when I first saw it. I wish I could go back to high school and experience projects like this!”**

– Alim Charania, Volunteer Crate Expert for You’re Hired! sponsored by RBC Financial Group, through the RBC Foundation

**New Crate:** *You’re Hired! Volunteer: Alim Charania, Personal Financial Service Representative*

**Sponsor:** *RBC Financial Group, through the RBC Foundation*



**Platinum**

Alberta Innovation and Science  
 Suncor Energy and Suncor Energy Foundation  
 TransCanada PipeLines Limited  
 Syncrude Canada Ltd.  
 Enbridge Inc.  
 Shell Canada Limited  
 Alberta Forest Products Association  
 Industry Canada

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**Gold**

Western Economic Diversification Canada  
 RBC Financial Group, through RBC Foundation  
 Alberta Lottery Fund - Community Initiatives Program  
 EPCOR  
 Dow Chemical Canada Inc.

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**Silver**

Alberta Land Surveyors Association  
 Association of Professional Engineers, Geologists, and Geophysicists of Alberta  
 Monsanto Canada  
 Weyerhaeuser Company  
 Alberta Environment  
 Anadarko Canada Corporation  
 Schlumberger Canada Ltd.  
 Alberta Energy and Utilities Board

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**Bronze**

Alberta Association of Optometrists  
 ExxonMobil Canada  
 TELUS  
 PromoScience  
 TD Friends of the Environment Foundation  
 Frances Galvin Fund, The Calgary Foundation  
 Canadian Space Agency  
 Alberta Ecotrust Foundation  
 Alliance Pipeline Ltd. Partnership  
 Bantrel Co.  
 Essilor Canada  
 Johnson & Johnson Vision Care, Inc.  
 Merck Frosst Canada Ltd.  
 Canadian Society of Exploration Geophysicists  
 Canadian Society of Petroleum Geologists -  
 Educational Trust Fund  
 Operation Grasslands Community Program, Alberta  
 Fish and Game Association

The Hunter Family Foundation  
 Alberta Sports, Parks, Recreation and Wildlife Foundation  
 CropLife Canada  
 Regional Municipality of Wood Buffalo  
 AlbianSands  
 Alberta Egg Producers  
 Canadian Natural Resources Ltd.  
 ConocoPhillips Surmount Partnership  
 Northern Alberta Development Council  
 Alberta Ingenuity Fund  
 Alberta Research Council  
 Petro-Canada  
 RBC Royal Bank  
 Sterling Crane

### **Copper**

Nucleus Information Services Inc.  
Celanese Canada Inc.  
Deer Creek Energy Limited  
Alberta & NWT (District of MacKenzie) Building  
and Construction Trades Council  
Enbridge Pipelines Inc.  
Golder Associates Ltd.  
International Union of Operating Engineers – Local 955  
KPMG Management Services LP  
Nexen Petroleum Canada (Long Lake Project)  
OPTI Canada Inc. (Long Lake Project)  
Alberta Beef Producers  
Brad and Tanya Zumwalt  
Devon Canada Corporation  
Janet and Ron Kuchinka

North American Construction Group  
Pirie Foundation  
Suncor Energy Foundation Community Service Grant  
PCL Industrial Management Inc.  
Nalco Canada Co.  
Keet Peng Wong Professional Corporation  
Debbie Robert  
Arlene and Philip Ponting  
EnCana Cares Foundation  
Sylvia Kennedy and Ernie Tromposch  
Creating Impact Ltd.  
Gordon Olsen Associates Inc.  
Lorne Michael Zuk Professional Corporation  
Bill and Elsa Cade  
Spiteri & Associates

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### **Friends (In-Kind Contributions)**

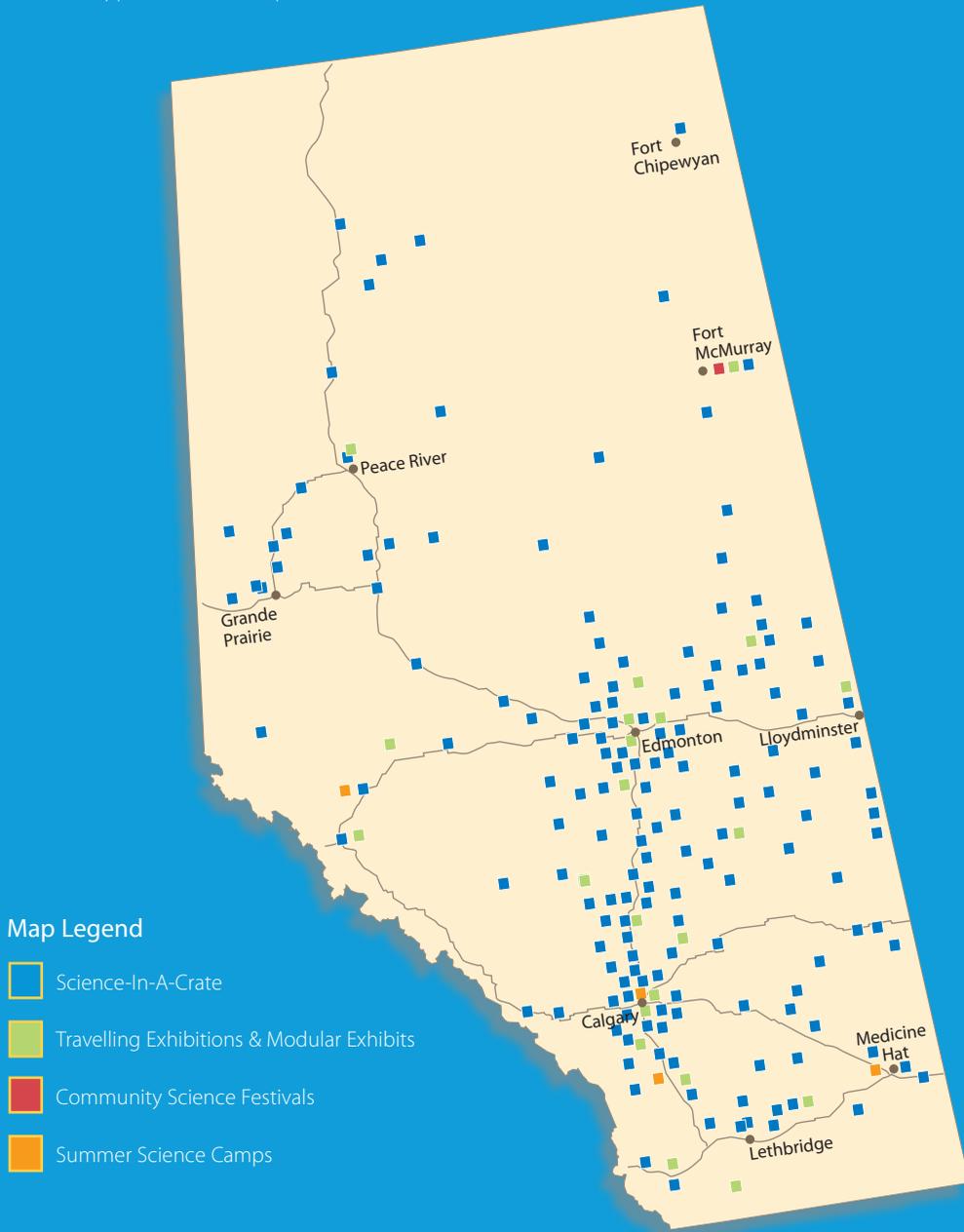
Alberta Infrastructure  
Alberta Plastics  
Banner Pharmacaps (Canada) Ltd.  
Bennett Jones LLP  
Boston Pizza (Fort McMurray)  
CDG Design  
CFCN TV  
Chez Dube Country Inn  
CJOK/KYX 98  
CSN Media  
EPCOR  
Evolvs Media  
Father Mercredi High School  
Fitter First  
Global TV  
Hertz Rent-A-Car  
HMV (Downtown Calgary)  
Jane-Of-All-Trades

Keyano College  
Komatsu Forest LLC  
Lethbridge Herald  
M&M Meat Shops  
MacDonald Island  
McMurray Today  
Moxie's Restaurant (Fort McMurray)  
Oil Sands Discovery Centre  
Pearson Education Canada  
Peter Pond Shopping Mall  
Quality Hotel (Fort McMurray)  
Rare Method  
Robert Half Finance & Accounting  
Sawridge Inn  
Shaw TV  
Wi-Band Communications  
YMCA (Fort McMurray)  
Zirkonium

**We thank all donors including those who have chosen  
to remain anonymous.**

## PROVINCIAL REACH: OUR PROGRAMS SPAN THE PROVINCE

From the beginning, it has been a goal of Science Alberta Foundation to find a way to bring meaningful science and technology learning to every Albertan regardless of where they live. In 2004 – 2005, our programs and services happened across the province as shown below.





**Crate:** *Environmental ER* **Student:** *Grade 9 Student* **Sponsor:** *Dow Chemical Canada Inc.*

**“This was the best day EVER!”**

-Kindergarten student at the launch of the new Jr. Palaeontologist crate

**“This is a great program! The students really enjoyed the activities and unknowingly learned a lot from it. I found the crate program easy to follow, easy to set up, and easy to carry out. Thanks!”**

– Glenmary School, Peace River about the Get Focused crate

**“The activities were excellent at a Grade 4 and 5 level – much enjoyed by the students.”**

– High Prairie School, High Prairie about the Ways of Knowing: Structure & Design crate

**“This is probably the best crate I have ever used. The activities were excellent and mirrored the curriculum perfectly. Bravo!”**

– École Dickensfield, Fort McMurray

## EXPANDING OUR CRATE PROGRAM

Our Science-In-A-Crate program is one of the most innovative, creative and accessible science learning programs, in schools, in the province. The hands-on activities and the use of creative approaches and real life contexts make the learning enjoyable, relevant and enduring. They also build an awareness of careers in science and technology. The activities appeal to all children and youth regardless of predisposition to science, gender or background. They require active learning, working in groups, problem solving and critical thinking.

Community crates provide activities for Guide leaders for three weekly meetings so Guiders can earn their science and engineering badge. Camp crates provide all resources that camp providers across the province need to bring science and technology alive for their busy campers.

### In the past year, we

- Reached over 65,000 children and youth in Alberta
- Created six new crates with multiple copies
  1. **Galactic Enquirer** – Grade 9 Science (topic: Space Exploration) – *developed in collaboration with Canadian Space Agency*
  2. **Geologist’s Boot Camp** – Grade 7 Science (topic: Planet Earth) – *made possible through the support of Anadarko Canada Corporation, Canadian Society of Explorations Geophysicists, Canadian Society of Petroleum Geologists – Educational Trust Fund, Schlumberger Canada*
  3. **Planet Earth: Time Mystery** – Grade 7 Science (topic: Planet Earth) – *made possible through the support of Anadarko Canada Corporation, Canadian Society of Explorations Geophysicists, Canadian Society of Petroleum Geologists - Educational Trust Fund, Schlumberger Canada*
  4. **You’re Hired!** – Grade 11– Pure and Applied Math 20 (topic: Finance); Math 24 (topic: Number Operations) – *made possible through the support of RBC Financial Group, through the RBC Foundation*
  5. **Environmental ER** – Grade 9 Science (topic: Environmental Chemistry) – *made possible through the support of Dow Chemical Canada Inc.*
  6. **Jr. Palaeontologist** – Kindergarten (topic: Mathematics; Community and Environmental Awareness) – *made possible through the support of Alberta Innovation and Science and developed collaboratively with the Royal Tyrell Museum*
- Launched an innovative continuing education program for teachers, Catalyst for the Future, funded by EPCOR. The program consists of a learning journal, a companion video, and online learning community.



**We are helping** to make a difference in student interest and achievement in math and science from kindergarten to grade 11.

Currently our crates are in one out of every eight classrooms in the province. Our goal is to be in one out of every three classrooms by 2010.

## EXPONENTIAL GROWTH ON WONDERVILLE.CA



**Wonderville.ca was developed with support from Platinum sponsors TransCanada Pipelines Limited and Alberta Innovation and Science**

Wonderville.ca is our award-winning online program with amazing activities that make science relevant, meaningful, fun, and accessible to children, youth and families. In this virtual learning environment, cool science happens on desktops in homes and in schools - in urban or rural communities in Alberta - and beyond. This site is world class, engaging learners with animated characters developed exclusively for Wonderville.ca's 3D digital environment. The intriguing activities directly meet the knowledge outcomes of the Alberta science and math curriculum. Wonderville.ca teaches while it entertains.

### 2004-2005 Development on Wonderville.ca

- One science game concept: designed for grade 4 to teach about the nature of light and how it travels, Light N Optics – *made possible through the support of TransCanada Pipelines Limited.*
- Classroom science challenge pilot project: with seven classrooms of grade 5 students who were challenged to work in groups to apply electrical principles to design and build a burglar alarm. Students then posted their work, including digital pictures, to Wonderville.ca – *made possible through the support of the Frances Galvin Fund, The Calgary Foundation.*
- Two comprehensive digital activities: Robot Factory (simple machines) and Hearing & Sound (pitch, vibration, how we hear) – *made possible through the support of TransCanada Pipelines Limited.*
- Four small multi-use digital activities: Hockey Shoot Out (evaluating materials and designs), Strong Man (understanding forces and pressure), Fossilization (discovering conditions that create fossils) and Trees & Forests (understanding environmental conditions from trunk cross-sections) – *made possible through the support of TransCanada Pipelines Limited and Alberta Innovation and Science.*
- Four career videos: Intense IT (telecommunications), Entomologist, Mining Engineer, Crane Operator – *made possible through the support of TransCanada Pipelines Limited, Sterling Crane and Alberta Innovation and Science.*
- Eight printable activities to download, for example: Designing the Best Hockey Stick – *made possible through the support of TransCanada Pipelines Limited.*
- Ten science facts presented as EverWonders – *made possible through the support of TransCanada Pipelines Limited.*

### User Statistics (April 1, 2004 to March 31, 2005)

- 270,586 total sessions and 2,160,174 total hits
- 51% of sessions lasted longer than 60 minutes, and 29% of sessions lasted 10 to 59 minutes
- Peak usage is between 3 p.m. and 9 p.m., when families are home

## FESTIVALS OF SCIENCE & EXHIBITS

Science Alberta Foundation works with local community leaders and science enthusiasts to celebrate the science and technology in their community, and to introduce children, youth and families to the varied careers in these fields. Festivals build an awareness that science is everywhere, and it is integral to our quality of life. With great support from the local media, many people heard about the festival. This sends a strong message that science is interesting and something to participate in as a free-time activity.

### Wood Buffalo Festival of Science

Last year, Science Alberta Foundation initiated and facilitated a very successful festival in the Wood Buffalo Region. A very impressive planning team brought science to life for four days in Fort McMurray with satellite programs throughout the region. Suncor Energy Foundation and local industry and science supporters made this festival possible. There were tours and demonstrations, as well as presentations featuring Dr. Roberta Bondar, Evergreen Theatre and local experts. The festival presented the first Science Café in Alberta, offering participants an opportunity to discuss the pros and cons of GPS with expert Dr. Elizabeth Cannon. The festival events were attended by 7,500 residents and over 30,000 learned about science and the festival on the radio, television or in newspapers.

### Science Exhibits and Exhibitions

Exhibits are small displays that present one science concept and are suitable for public venues. Travelling Exhibitions have multiple display stations and science concepts. Teachers bring their classes to the local venue where students learn about a component of the curriculum in an enjoyable and effective way.

### Over the past year, we

- Toured seven exhibitions/exhibits on alternative energy, forestry, and the oil sands
- Launched a new community exhibition, Carniville of Wonders, that provides fascinating ways for children, youth and families to experience the excitement and relevance of science through hands-on and minds-on activities and challenges. This exhibition was funded by Alberta Innovation and Science. The program is designed to use at fairs, stampedes, and festivals across the province

We bring science and technology to the people.



**John Acorn, The Nature Nut, speaks with a group at a Festival of Science.**



**The Plugging In exhibit was made possible through the support of Platinum sponsors, Suncor Energy Foundation and Enbridge Inc.**

## FINANCIAL STATEMENTS

**mackay.ca**

### **AUDITOR'S REPORT**

To the Directors of Science Alberta Foundation

We have audited the statement of financial position of Science Alberta Foundation as at March 31, 2005 and the statements of operations, changes in net assets and changes in cash resources for the year then ended. These financial statements are the responsibility of the Foundation'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 Foundation as at March 31, 2005, and the results of its operations and its cash flows for the year then ended in accordance with Canadian generally accepted accounting principles.



Calgary, Canada  
May 9, 2005

CHARTERED  
ACCOUNTANTS

## STATEMENT OF FINANCIAL POSITION MARCH 31, 2005 &amp; 2004

	2005	2004
	\$	\$
<b>ASSETS</b>		
<b>CURRENT ASSETS</b>		
Cash and term deposits (Note 3)	1,364,847	1,266,214
Accounts receivable	174,204	237,054
Goods and Services Tax rebate recoverable	24,823	21,774
Prepaid expenses	91,364	-
<b>Total current assets</b>	<b>1,655,238</b>	1,525,042
<b>PROPERTY AND EQUIPMENT</b> (Note 4)	<b>33,112</b>	37,103
	<b>1,688,350</b>	1,562,145
<b>LIABILITIES</b>		
<b>CURRENT LIABILITIES</b>		
Accounts payable and accrued liabilities	229,469	135,155
Deferred revenue	-	300,000
Deferred contributions (note 5)	716,578	451,502
<b>Total current liabilities</b>	<b>946,047</b>	886,657
<b>NET ASSETS</b>		
Invested in property and equipment	33,112	37,103
Internally restricted for equipment replacement and operating contingency (Note 6)	350,000	350,000
Unrestricted	359,191	288,385
<b>Total equity</b>	<b>742,303</b>	675,488
	<b>1,688,350</b>	1,562,145
<b>COMMITMENTS</b> (Note 9)		

## STATEMENT OF OPERATIONS YEARS ENDED MARCH 31, 2005 &amp; 2004

	2005	2004
	\$	\$
<b>REVENUE</b>		
Grants and Contributions		
Alberta Innovation & Science	<b>1,200,000</b>	1,100,000
Contributions amortized (note 5)	<b>1,006,218</b>	1,095,226
Other donations	<b>7,955</b>	10,151
	<b>2,214,173</b>	2,205,377
Educational program fees	<b>42,105</b>	42,258
Interest	<b>28,187</b>	41,581
<b>Total revenue</b>	<b>2,284,465</b>	2,289,216
<b>EXPENDITURES</b>		
Science literacy and learning	<b>771,608</b>	738,107
Communications and science awareness	<b>755,239</b>	740,214
SciQ	<b>159,779</b>	249,651
Science Networks	-	3,885
Partnerships, relationships and collaborations	<b>44,589</b>	48,086
Resource Development	<b>159,194</b>	98,327
Administration	<b>183,693</b>	139,768
Infrastructure	<b>107,719</b>	104,833
Governance and audit	<b>20,255</b>	27,682
Continuous learning and improvement	<b>15,574</b>	23,041
<b>Total expenditures</b>	<b>2,217,650</b>	2,173,594
<b>EXCESS REVENUE OVER EXPENDITURES BEFORE OTHER ITEMS</b>	<b>66,815</b>	115,622
<b>OTHER ITEMS</b>		
Loss on disposal of equipment	-	(158)
<b>EXCESS REVENUE OVER EXPENDITURES</b>	<b>66,815</b>	115,464

## STATEMENT OF CHANGES IN NET ASSETS YEARS ENDED MARCH 31, 2005 &amp; 2004

	2005			2004	
	Invested in Property and Equipment \$	Internally Restricted for Equipment Replacement and Operating Contingency \$	Unrestricted \$	Total \$	Total \$
<b>Balance at Beginning of Year</b>	<b>37,103</b>	<b>350,000</b>	<b>288,385</b>	<b>675,488</b>	560,024
Excess revenue over expenditures	-	-	<b>66,815</b>	<b>66,815</b>	115,464
Net change in investment in property and equipment					
Purchases from internally restricted resources	<b>28,600</b>	<b>(28,600)</b>	-	-	-
Amortization	<b>(32,591)</b>	-	<b>32,591</b>	-	-
Loss on disposal of property and equipment	-	-	-	-	-
Board appropriation for operating contingency	-	<b>28,600</b>	<b>(28,600)</b>	-	-
	<b>33,112</b>	<b>350,000</b>	<b>359,191</b>	<b>742,303</b>	675,488

## STATEMENT OF CHANGES IN CASH RESOURCES YEARS ENDED MARCH 31, 2005 &amp; 2004

	2005 \$	2004 \$
<b>CASH PROVIDED BY (USED FOR):</b>		
<b>OPERATING ACTIVITIES</b>		
Excess revenue over expenditures	<b>66,815</b>	115,464
Items not affecting cash		
Amortization	<b>32,591</b>	26,518
Loss on disposal of equipment	-	158
	<b>99,406</b>	142,140
Changes in working capital		
Accounts receivable	<b>62,850</b>	(183,337)
Prepaid expenses	<b>(91,364)</b>	-
Goods and Services Tax recoverable	<b>(3,049)</b>	16,164
Accounts payable and accrued liabilities	<b>94,314</b>	44,473
Deferred contributions	<b>265,076</b>	105,752
Deferred revenue	<b>(300,000)</b>	300,000
	<b>127,233</b>	425,192
<b>INVESTING ACTIVITIES</b>		
Purchase of property and equipment	<b>(28,600)</b>	(12,058)
<b>NET INCREASE IN CASH DURING THE YEAR</b>	<b>98,633</b>	413,134
<b>CASH AND TERM DEPOSITS BEGINNING OF YEAR</b>	<b>1,266,214</b>	853,080
<b>CASH AND TERM DEPOSITS END OF YEAR</b>	<b>1,364,847</b>	1,266,214

## NOTES TO FINANCIAL STATEMENTS MARCH 31, 2005

### 1. ORGANIZATION AND PURPOSE

The Science Alberta Foundation is an organization whose main purpose is to promote science education in the province of Alberta. The Foundation is a not-for-profit organization incorporated under the Societies Act of Alberta on January 26, 1990. It is a registered charity under the Canadian Income Tax Act and, accordingly, is exempt from income taxes and can issue donation receipts for income tax purposes as long as certain requirements of the Income Tax Act are met.

### 2. ACCOUNTING POLICIES

The following is a summary of the significant accounting policies used by management in the preparation of these financial statements.

#### a. Revenue recognition

The Foundation follows the deferral method of accounting for contributions. Restricted contributions are recognized as revenue in the period in which the related expenses are incurred. Unrestricted contributions are recognized as revenue when received or receivable if the amount to be received can be reasonably estimated and collection is reasonably assured. Interest revenue is recognized when earned.

#### b. Equipment

Property and equipment are stated at historical cost. Amortization of property and equipment is provided on a straight-line basis over their estimated useful lives to their estimated residual values at the following annual rates:

Computer equipment	3 years	33%
Computer software	1 year	100%
Office equipment	5 years	20%
Leasehold improvements	5 years	20%

Equipment required for exhibitions and programs is charged to the respective exhibition or program and is not capitalized.

#### c. Contributed goods and services

Volunteers contribute significant hours of time, and other donors significant goods and services, to assist the Foundation in carrying out its activities. The value of contributed time, goods and services has not been recognized in these financial statements.

#### d. 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 balance sheet date and the reported amounts of revenues and expenses during the year. Actual results could differ from those estimates.

### 3. CASH AND TERM DEPOSITS

Cash and term deposits include amounts subject to external restrictions, amounts subject to internal restriction and amounts available for unrestricted use, as follows.

			2005	2004
			\$	\$
	Cash	Term Deposits	Total	Total
Subject to external restrictions	135,000	581,578	716,578	451,502
Subject to internal restrictions	-	350,000	350,000	350,000
Unrestricted	180,849	117,420	298,269	464,712
	<b>315,849</b>	<b>1,048,998</b>	<b>1,364,847</b>	1,266,214

Externally restricted cash represents resources restricted for specific projects in progress at year-end and projects to be initiated in the next fiscal year.

Internally restricted cash represents reserves set up by the Foundation for the future replacement of equipment and operating contingency.

Term deposits mature January 2006 bearing an interest rate of 1.85%.

### 4. PROPERTY AND EQUIPMENT

			2005	2004
			\$	\$
	Cost	Accumulated Amortization	Net Book Value	Net Book Value
Computer equipment	92,890	76,735	16,155	7,546
Computer software	27,040	27,040	-	-
Office equipment	52,518	39,096	13,422	18,837
Leasehold improvements	39,750	36,215	3,535	10,720
	<b>212,198</b>	<b>179,086</b>	<b>33,112</b>	37,103

### 5. DEFERRED CONTRIBUTIONS

Deferred contributions related to expenses of future periods represent unspent grants and contributions received through agreements and contracts with sponsors, which may only be spent in accordance with the terms of said agreements and contracts. Each contract and agreement is project specific. Details are as follows.

	2005	2004
	\$	\$
Deferred contributions, beginning of year	451,502	345,750
Transactions during the year		
Grants and contributions received in the year	1,271,294	1,200,978
Amortization to revenue	(1,006,218)	(1,095,226)
	<b>265,076</b>	105,752
Deferred contributions, end of year	<b>716,578</b>	451,502

### 6. INTERNALLY RESTRICTED NET ASSETS

The Board of Directors has internally restricted \$350,000 of the Foundation's net assets to be used to replace equipment and as an operating contingency.

**7. ECONOMIC DEPENDENCE**

The Foundation relies on Alberta Innovation and Science to fund a significant portion of its operations. Without this funding the Foundation would not be able to operate in its current capacity.

**8. FINANCIAL INSTRUMENTS**

All significant financial assets and financial liabilities of the foundation are either recognized or disclosed in the financial statements together with other information relevant for making a reasonable assessment of future cash flows, interest rate risk and credit risk. Where practical the fair values of financial assets and financial liabilities have been determined and disclosed; otherwise only available information pertinent to fair value has been disclosed.

**9. COMMITMENTS**

The Foundation is committed to future minimum annual office and warehouse space operating charges and equipment lease payments as follows:

2006	\$ 24,427
2007	\$ 12,100
2008	\$ 10,567
2009	\$ 10,056
2010	\$ 3,352

The office and warehouse premises operating lease expires July 31, 2005, with a five-year renewal option available at the discretion of the Foundation.

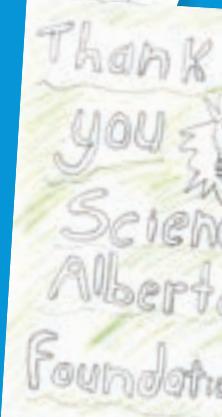
**10. COMPARATIVE INFORMATION**

Certain of the 2004 comparative figures have been reclassified to conform to the financial statement presentation adopted in the current year.



“Excellent program and so user friendly! This can be a tough topic to teach yet you made it fun. My class couldn’t wait to use the experiments. Super job! I will book again.”

– Teacher, Fleetwood Bawden School, Lethbridge



“I love everything about Wonderville.ca. It rocks!”

– Grade 5 Student, Calgary



“This was very informative and a wonderful source of new information for students. It was great to have so many hands-on activities.”

– Library patron, Okotoks Public Library, Okotoks



“This crate was fantastic! Students’ knowledge and understanding of the concepts improved after using the materials in the crate. Thanks so much.”

– Teacher, Senator Patrick Burns, Calgary



“I’ve got to admit science hasn’t been an area I’m passionate about; I’ve loved English. With science in your backyard – I learned there are so many areas that you never think of as science. I’m definitely more excited about science – especially hearing Roberta Bondar.”

– Participant, Wood Buffalo Science Festival, Fort McMurray

