

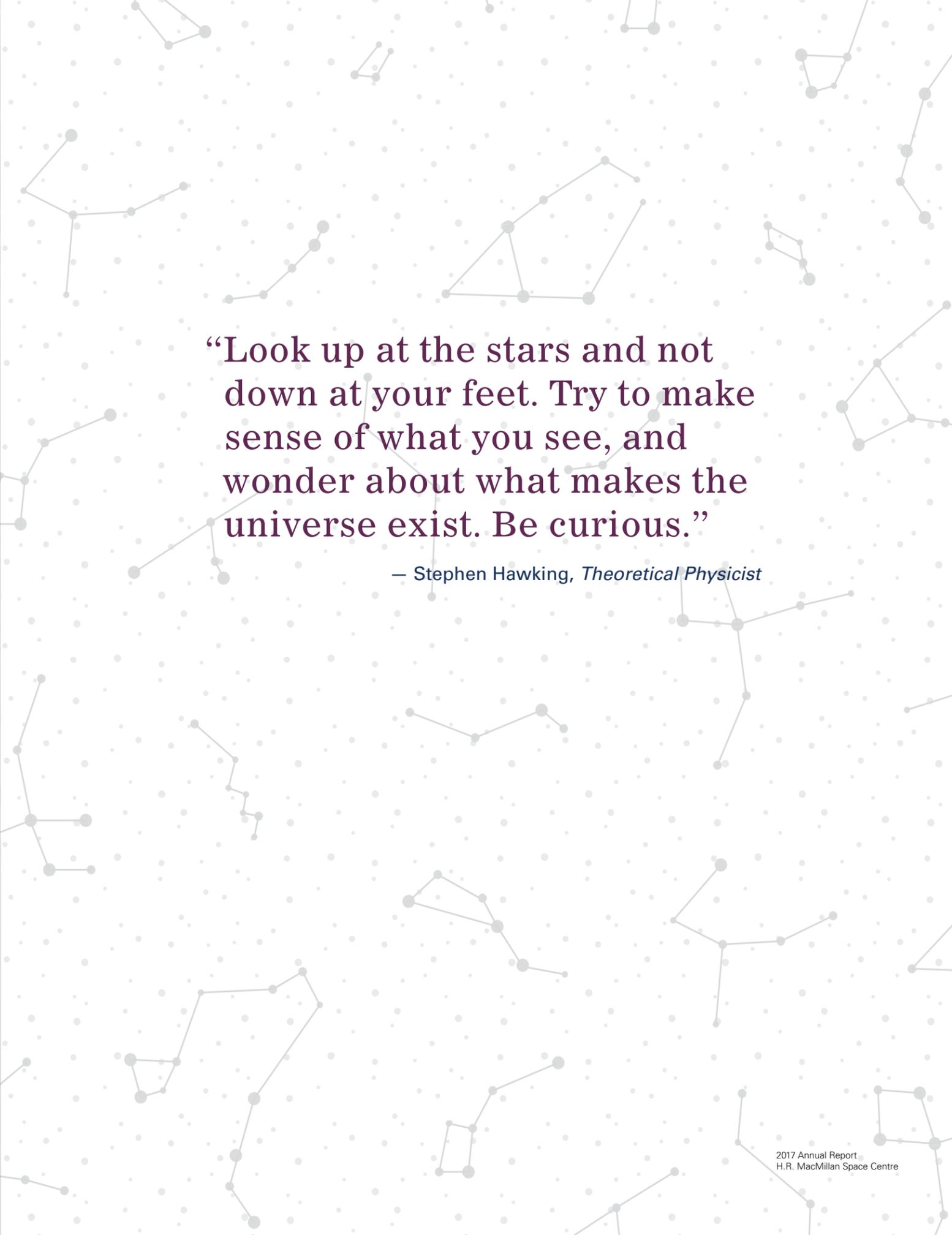
ANNUAL REPORT 2017



H.R. MacMillan Space Centre



Image: Jupiter Blues
Credit: NASA/JPLCaltech/SwRI/MSSS/Gerald Eichstädt/ Seán Doran



“Look up at the stars and not down at your feet. Try to make sense of what you see, and wonder about what makes the universe exist. Be curious.”

— Stephen Hawking, *Theoretical Physicist*



Message from the Board Chair and Executive Director

OUR POSSIBLE

The H.R. MacMillan Space Centre Society is evolving in new and exciting directions with people at the heart of all we do. Your input and aspirations define our goals. Your learning, success, and connection-making are the best parts of our story.

As Chair and Executive Director, we have had the privilege of working with board members, staff, volunteers, and other community members to live our strategic plan. We are committed to reflecting our community in all its diversity, be a resource for everyone, and a launch point for both personal and community growth. Our activities encourage us to reach further, push boundaries, and venture into new territories.

Our strong commitment to fully reflect our community resulted in the centre spending significant time deeply engaged with internal and external stakeholders to consider the broader social impact our organization has on the communities we serve. This effort resulted in a fully articulated organizational brand story. We will be consulting and testing this story with the larger community in 2018.

In 2017, watching the life that unfolds at the centre is truly inspiring. This year, you made 125,587 touch points directly with us. We visited you in your community through our portable planetarium and community astronomy programs connecting with 10,749 adults, children, seniors and youth.

Our annual report not only showcases our strategic priorities, it provides glimpses of how they reverberate through our broader community each and every day. We look to embody flexibility and innovation. We want to meet you where you are – in all senses of the phrase.

When we come together with our community, our shared vision for the H.R. MacMillan Space Centre is achievable in every moment. Thank you for helping us make this possible. We look forward to seeing what we create together in the years to come.



Matthew Anthony
Board Chair



Raylene M. Marchand
Executive Director



Image: Soyuz MS-05 spacecraft blast off
Photo credit: Shamil Zhumatov/Reuters

The H.R. MacMillan Space Centre is about:
freedom of ideas, freedom of communication,
freedom to learn...

OUR MISSION

To educate, inspire, and evoke a sense of
wonder about the universe, our planet, and
space exploration.

OUR VISION

An inspired and imaginative community
connecting society, culture, and science to
facilitate experiences that are...
like nothing on Earth.

OUR VALUES

Wow · Innovation · Collaboration · Community

Reflecting Our Community

AN EVOLVING AND DYNAMIC SPACE...

When the community visits the H.R. MacMillan Space Centre, you contribute your unique voice, history, values, needs, and interests to the life in our centre. These are the building blocks that create our experiences every day.

As a result of listening to our audiences and working with our partners, we have explored the intersection of culture, science and society. This addresses the importance of understanding science within the context of our contemporary society and uses creative elements to help us and our audience think of the concepts in different ways.

It is our goal to be the best possible reflection of our diverse community, so everyone feels at home. Here are a few examples of the many ways you shaped the centre this year:

Partial Solar Eclipse

Leading up to the partial solar eclipse on August 21 was a great opportunity to discuss how we think about the sun and eclipses from a variety of perspectives. We highlighted the eclipse in our programming and incorporated scientific, cultural and



historical examples of eclipses. In addition to the onsite programming we went out into the community

with our solar telescope to connect with you. Thank you to the over 5000 Vancouverites who showed up to share in the experience with us!

Romance of the Stars

Working with musician Louise Burns and with cultural and astronomical perspectives from our staff, we created a romantic Valentine's Day event under the stars.

Eclipse: Total Alignment

Partnering with a local group, Curiosity Collider, we brought together artists and scientists to explore themes associated with the solar eclipse.

True Human Stories from the Pale Blue Dot (Special Musical Guest Torquil Campbell)

During an evening of storytelling co-produced with The Flame our audience members experienced a thought provoking evening through the telling of true short stories under the stars.



29,045

COMMUNITY OUTREACH
AND PROGRAM ATTENDANCE

A Resource For Everyone

 **125,587**
ANNUAL VISITORS

THE ANSWERS TO YOUR QUESTIONS...

Diverse subjects, discussions of current scientific events, knowledgeable staff, and hands-on activities – you can find it all here. Our ability to be an ever-expanding resource for our community is strengthened by listening, checking in, staying on top of trends, and continuously learning alongside you. Here are a few exciting developments from this past year:

Seven Wonders of Vancouver

In association with the fulldome planetarium film, Seven Wonders, local historian John Atkin took a look at some of the seven wonders of Vancouver using stunning images in our planetarium star theatre.

The Universe of the Brain

Partnering with the Djavad Mowafaghian Centre for Brain Health, two internationally acclaimed neuroscientists (Dr. Claudia Krebs and Dr. Cheryl Wellington) and a troop of contemporary dancers explored one of the current issues in brain health: concussions. The evening incorporated stunning 3D models and dance to help communicate the current research into the ramifications and treatment of concussions.

Asteroid Day

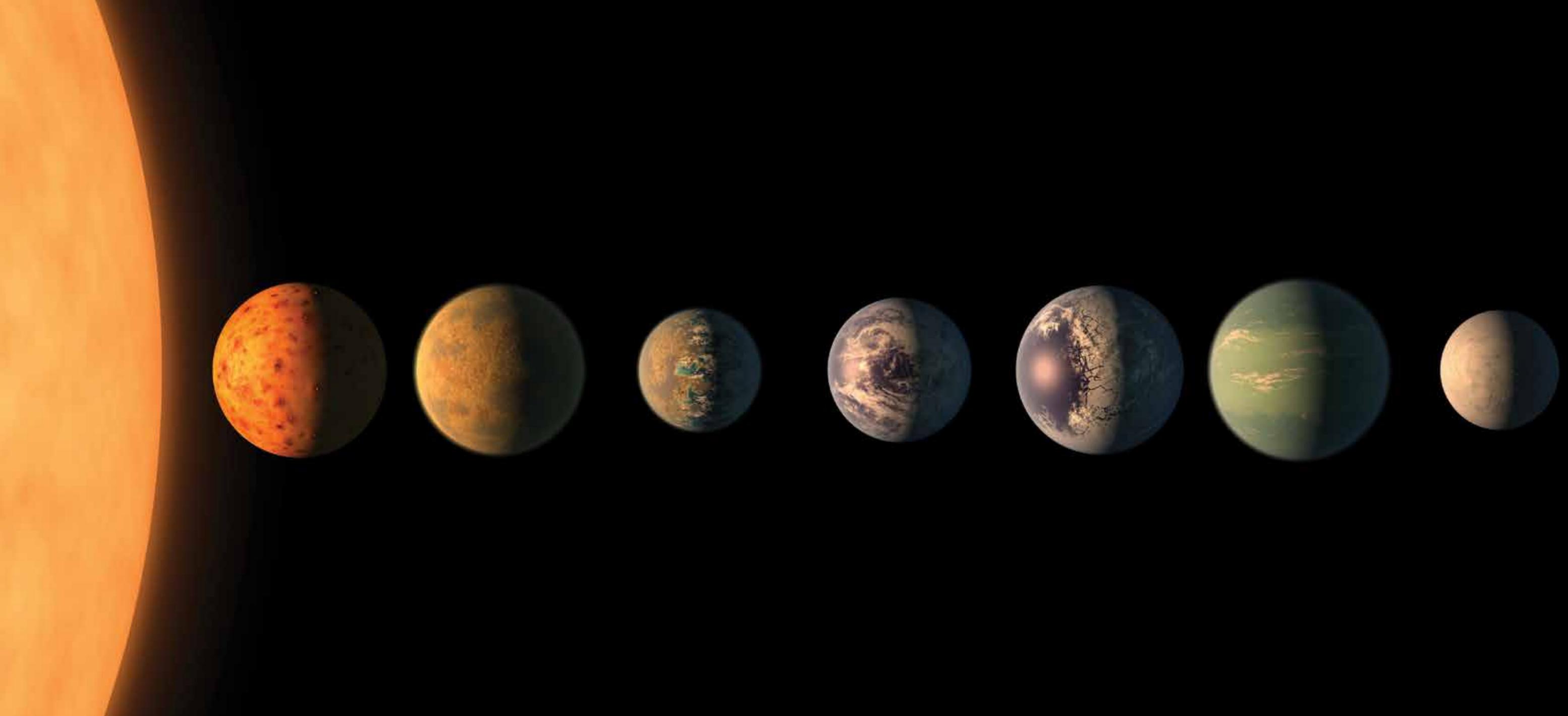
This annual event was held on the anniversary of the Siberian Tunguska event that took place on June 30th, 1908. This is considered to be the most harmful known asteroid-related event on Earth in recent history. The evening was an opportunity to raise awareness about these elusive



elements in our solar system. The evening included a lecture about asteroid detection and deflection and activities facilitated by Mika McKinnon (Professional Science Communicator), Minerals Ed.

Horizons Show

Marking Canada's 150th anniversary, Sesqui developed a stunningly beautiful fulldome planetarium film showcasing Canada's natural and cultural diversity. Over 8000 of you viewed the film at our events and community celebrations. We also co-hosted an opening event which brought together the film makers and partners (Parks Canada, Reconciliation Canada, Pacific Salmon Foundation).



“If people sat outside and looked at the stars each night, I’ll bet they’d live a lot differently.”

— Bill Watterson, *American Cartoonist*

A Launch Point For Growth



19,015
SCHOOL AND
COMMUNITY GROUP
ATTENDANCE

WHERE THE STORY BEGINS...

The H.R. MacMillan Space Centre is here for you to explore, freely. We aim to offer the best education and enrichment opportunities for our community. In turn, we learn from your achievements, growing and adapting with you.



Partner: Chevron Canada, Various School Districts, Community Libraries
Program: Harnessing STEM Power

This program brings our portable planetarium to schools and communities in the north of the province. The focus of the program is supporting teachers in teaching STEM (science, technology, engineering and math) and raising awareness in students of how STEM is integrated into their lives. We are expanding the programming by partnering with local libraries and providing STEM and coding to summer reading program participants.



Partner: United Way, Surrey School District
Program: School's Out: Sticks and Stars Program

Working with our new partner, United Way, we continued our support of the Surrey school districts afterschool program for at-risk boys. The program focuses on leadership development, sports and science. Sixty students were involved in the program in 2017.

"I have been more conscious of my actions, so in other words nicer because of Sticks and Stars."
— Student Participant

"The program has allowed students to come out of their shells [and] builds confidence among students as they try activities they wouldn't normally feel comfortable participating in."

— Parent



Partner: Province of British Columbia, Vancouver Foundation (Glenn and Annetta Agnew Memorial Fund)
Program: Capital Investment

Thanks to generous support from the BC Gaming – Capital Projects grant and the Vancouver Foundations' matching funds, audiences attending our shows and productions staged by our community partners and rentals clients will now have access to an acoustically upgraded facility - the planetarium star theatre. High art under the impressive dome can and has been making a comeback. We are addressing community demand for high-quality, dedicated performance space under 250 seats and improving this iconic multi-functional facility with potential to deliver unparalleled presentation opportunities.

Life Unfolds at the H.R. MacMillan Space Centre

TURN THE PAGE:

The Space Centre experience is different every day. It's the perfect place for fresh starts and test ventures. A small business networking session or laughter yoga class might just be the beginning of your next chapter.



Explore The Unexpected
The Space Centre is right around the corner. We're popping up at community events and working to bring you interesting stories, scientists, artists, and conversations wherever you are. Find us where you need us.

We received an unexpected \$500 donation for being a charity finalist in the Phillips Brewing & Malting Co. Benefit Brew Campaign.

The Benefit Brew is a Phillips Brewing & Malting Co. project where they brew a special beer for a cause, name the beer after the charity and donate the full proceeds (\$10,000) to them. We were nominated and chosen as a finalist with nine other non-profits and invited to participate in a public vote that determined the winner. In the end, we did not get the beer named after us, but it was fun, exciting and rewarding to feel the love of the community.



Make A Connection
The Space Centre is yours for the making. Our members, visitors, volunteers, and staff make up a true "human collection." Every interaction is an opportunity for growth, and being our community's source for connection and sharing is why we exist.



Create Something New
The Space Centre is a common ground for unfettered experiences and experimentation. Live international simulcast presentations, competitions, bottle-rocket launching — make it happen here.



+53%
SPECIAL EVENTS
ATTENDANCE

Ideas to Action

BC CHILDREN'S HOSPITAL FOUNDATION PARTNERSHIP

"I'm going to space!" shouted one 6 year old child as she went running into the new oncology treatment suite at the new BC Children's Hospital Teck Acute Care Centre. The treatment suite was one of two areas we worked on as part of The Children's Healing Experience Project. We supported the project by helping them create a more inviting atmosphere in two of the new hospital's treatment rooms. We transformed one of the imaging rooms into a night time country scene for some stargazing and the oncology treatment suite into a trip into space.

In addition to the Children's Healing Experience Project we supported the Foundation by providing programming during their Staycation summer event for kids and their families. As well, in the spirit of the season, we were invited to participate in the BC Children's Hospital 31st Annual Festival of Trees. People donated to vote for decorated trees supporting BC Children's Hospital. We had lots of fun decorating the tree with planets and stars and interacting with curious guests at the Four Seasons Hotel at the Pacific Centre where our and other Christmas trees were on display.

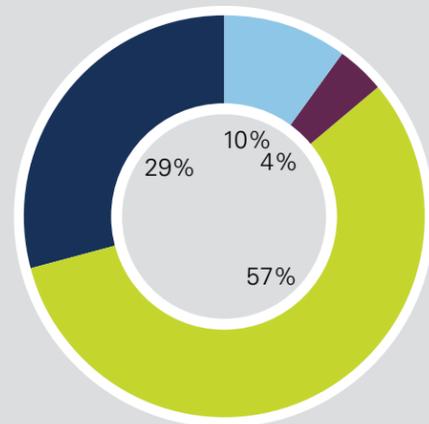


2017 FINANCIAL SUMMARY

The H.R. MacMillan Space Centre Society is proud to be funded in part by the City of Vancouver and the Province of British Columbia. Additional funding is received to support special activities including outreach programming, student hiring grants, and Vancouver Foundation Endowment interest support. The society also generates revenues through admissions and programs, special events, facility rentals and services, and fundraising.

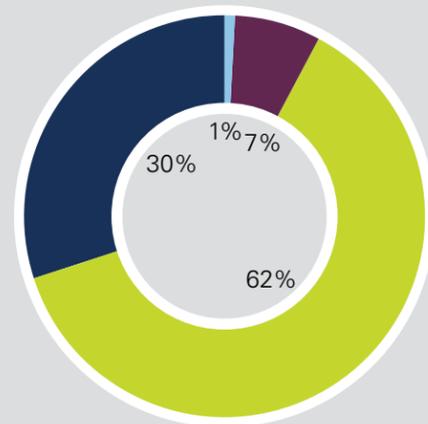
REVENUES	\$	EXPENDITURES	\$
Municipal Grant	519,400	Department Expenses	1,100,335
Provincial Grant	78,098	Programs and Services	530,288
H.R. MacMillan Space Centre Generated	1,029,628	Special Projects	120,139
Special Projects and Donations/Gifts	184,137	Amortization (Net of Deferred Capital Contribution)	21,420
TOTAL	1,808,263	TOTAL	1,772,182
		SURPLUS	36,081

Revenues



- H.R. MacMillan Space Centre Generated
- Municipal Grant
- Special Projects and Donations/Gifts
- Provincial Grant

Expenditures



- Department Expenses
- Programs and Services
- Special Projects
- Amortization Net of Deferred Capital Contribution

Thank you, donors and partners for doing for others by investing in the H.R. MacMillan Space Centre Society.

GOVERNMENT PARTNERS

NSERC
Young Canada Works
Province of British Columbia
City of Vancouver

PROGRAM PARTNERS

Adler Planetarium
Alina Sotskova
Bard on the Beach
Blanche MacDonald Centre
Canadian Association of Science Centres
Canadian Museum Association
City of Vancouver Archives
City of Surrey
Curiosity Collider
The Djavad Mowafaghian Centre for Brain Health
Don Harder
Dr. Aaron Boley
Dr. Claudia Krebs
Dr. Kiyoshi Masui
Dr. Melissa Rice
Dr. Scott Sampson
Dr. Jared Stang
Dr. Cheryl Wellington
Dr. Sun Yet-San Classical Chinese Gardens
The Flame
Geeks vs Nerds
The Gentlemen Hecklers
Here There YVR
John Atkin
Lindsay Elliott (lindsaysdiet.com)
Louise Burns

Mika McKinnon
MineralsEd
Museum of Vancouver
NASA
The Pacific Museum of Earth
Parks Canada
The Planetary Society
Reconciliation Canada
Sarah Louadi
Science World British Columbia
SCISS
Sesqui
Surrey School District
Starlit Citadel
Tartine Bread and Pies
University of British Columbia
Department of Physics and Astronomy
Educational Technology Support
Math Department
Vancouver Academy of Music
Vancouver Aquarium
Vancouver Maritime Museum

CORPORATE PARTNERS

Chevron Canada Ltd.
B.C. Children's Hospital Foundation
Ainsworth Communications
John D. and Catherine T. MacArthur Foundation
Peacock & Martin Imports
Red Truck Beer Co.
United Way

DONORS

Matthew Anthony
Jonathan Burke
Vern Kasdorf
Raylene Marchand
Lisa McIntosh
Eric Pringle
Maryalice Schaffer
Tanja Smutny
Roger Watts

Glenn and Annetta Agnew
Memorial Fund (Vancouver Foundation)

Anonymous and Point of Light (91)

FOUNDER

H.R. MACMILLAN

PATRON

Mrs. G.T. (Jean) Southam, C.M.

ENDOWMENT FUND

Vancouver Foundation

MEDIA SPONSORS

City TV
Corus
Crisp Media (Vancouver Mom)
Family Fun Media
Fresh Hat Media (YoYo Mama)
Global
Google
Lamar
Outfront Media

“Every great dream begins with a dreamer. Always remember, you have within you the strength, the patience, and the passion to reach for the stars to change the world.”

— Harriet Tubman, American Abolitionist

BOARD OF DIRECTORS

Matthew Anthony, Chair
Keith Acton
Dr. Aaron Boley
Jonathan Burke
Amber Coady
Eric Hopkins
Vern Kasdorf
Larkin MacKenzie-Ast
Eric Pringle, Past Chair
Greg Stanway
Roger Watts
Penny Wilson

MANAGEMENT

Raylene M. Marchand
Executive Director
Lyndsey Barton
Director of Community Engagement
Lisa McIntosh
Director of Learning
Mirjana Galovich
Director of Fund Development
Samaneh Badiei
Director of Finance
Alex Orlovskyy
Finance Consultant

VOLUNTEERS

Arman Athwal
Karen Lee
Rob Lo
Andrew Lui
Nicole-Ann Poitras

STAFF

Simran Badial
Stephane Bernard
Colleen Bignell
Greg Bricknell
Jasmine Coble
Fennie Easton van der Graaf
Patrick Fergusson
Mackenzie Fleming
Anton Friedman
Alex Gerwig
Daniel Gowryluk
Erin Green
Derek Greenway
Helen Griffiths
Ella Guzman
Kashifa Hafeez
Christine Henderson
Julianne Higham

Raphael Kepinski
Derek Kief
Mike Kozniak
Celia Jong
Crystal Lai
Kenneth Lui
Jason McRae
Casey Mok
Mark Moraes
Sonya Neilson
Trish Pattison
Meg Pinto
Valentina Pinzon-Duran
Shelley Preston
Jamie Purves
Hikari Rachmat
John Reid
Matt Reznick

Peter Richard
Skeerat Sahota
Jawad Sakarchi
Jaswinder Sandhu
Erica Saul
Gayle Seaman
Lucy Smith
Olga Sokolovska
Allan Soone
Terry Soone
Cheryl Sweeney
Michelle Sz
John Tanner
Jonathan Teague
Michael Unger
Charlene Wee
Sophie Yamauchi
James Yan

To HR MacMillan Space Centre Staff,

In gratitude for a successful field-trip where you tapped into our inquiring minds...

-Kaitlan
Cat eye Nebula

anything can turn into a black hole
-Sarah

Pluto is considered a dwarf planet
From: Kate

Constellations
- Gabby

Super Nova
- Pepe

The galaxy stretches as time passes!
-Julia

Galaxies!
-Sara

Seeing the milk way was cool
Linder!

The thing that keeps the universe expanding is dark matter (scientist thing)

Jupiter has over 60 moons
-Miffa

People have discovered OVER 5,000 different new planets
-Mac

Stars are based off roman + greek mythology.
Eileen

The Universe is growing


mily way 

There is a planet made entirely of diamond
-Hannah

Frankly? Different Solar Systems have more than 1 sun

"Exoplanets can be hot, salty, cold, underwater or toxic."
-Alex

H.R. MacMillan Space Centre is a non-profit organization built in 1968 that focuses on space and planetary sciences. Our approach is to create engaging and fun experiences to inspire visitors of all ages.

Charitable Registration Number: 10681 2183 RR001

There is a diamond planet
-Fen

The universe is always expanding
-Matias

The universe is always expanding
-Matias

There are a million types of planets


Black Holes are formed when something is condensed into a small enough space.
-Liam

moons Pull
-Mia
ü!

Grade 6 class of St Augustine's School



www.spacecentre.ca

1100 Chestnut Street, Vancouver, BC. • Tel 604.738.STAR (7827)

  @SpaceCentreYVR