

**Trek Talks: Bridging Science and the Arts
Additional Resources**

The Higher Learning staff curate digital resource packages to complement and offer further context to the topics and themes discussed during the various Higher Learning events held at TIFF Bell Lightbox. These filmographies, bibliographies, and additional resources include works directly related to guest speakers' work and careers, and provide additional inspirations and topics to consider; these materials are meant to serve as a jumping-off point for further research. Please refer to the event video to see how topics and themes relate to the Higher Learning event.

Organizations Mentioned During Event

Canadian Space Academy (CSA): <http://www.asc-csa.gc.ca/eng/>

International Space Station: https://www.nasa.gov/mission_pages/station/overview/index.html

Royal Ontario Museum: <http://www.rom.on.ca/en#/gallery/recent>

STEAMLabs: <http://steamlabs.ca/>

The QUALCOMM Tricorder XPrize: <http://tricorder.xprize.org/>

Scientific Principles/ Theories / Concepts Mentioned During Event

Binary Pulsars: <http://hyperphysics.phy-astr.gsu.edu/hbase/Astro/pulsrel.html#c1>

Dyson Sphere: <http://earthsky.org/space/what-is-a-dyson-sphere>

Einstein's Theory of General Relativity: <http://www.space.com/17661-theory-general-relativity.html>

The Big Bang: <http://www.space.com/25126-big-bang-theory.html>

The Scientific Method: <http://www.livescience.com/20896-science-scientific-method.html>

Technology Mentioned During Event

3D printing: <http://www.cbc.ca/news/technology/how-exactly-does-3d-printing-work-1.1371800>

Canadarm: <http://www.asc-csa.gc.ca/eng/canadarm/>

Cellular Communication: <https://www.nasa.gov/content/satellite-communications-technology-leads-to-cell-phone-advancements/>

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Cloud DX: <https://www.clouddx.com/>

ECG machine: http://www.heart.org/HEARTORG/Conditions/HeartAttack/DiagnosingaHeartAttack/Electrocardiogram-ECG-or-EKG_UCM_309050_Article.jsp#.WOVTYW_ytt8

Europa: <https://www.jpl.nasa.gov/missions/europa-clipper/>

RADARSAT-2: <http://www.asc-csa.gc.ca/eng/satellites/radarsat2/default.asp>

Surgery Robot: http://www.csii.ca/robotic_development/igar

Virtual Reality (VR): <https://www.theguardian.com/technology/2016/nov/10/virtual-reality-guide-headsets-apps-games-vr>

Interviews with Dr. Sonny Kohli

Frocklage, Phil. "Saving lives, Star Trek style: Cloud DX wearable closes in on Tricorder X-Prize," news.communitech.ca. May 5, 2016. <http://news.communitech.ca/columns/saving-lives-star-trek-style-cloud-dx-wearable-closes-in-on-tricorder-x-prize/> [last accessed April 6, 2017].

Long, Brian. "Smithsonian Dr. Sonny Kohli and Robert Kaul Star Trek Mission New York 2016," comicsverse.com. September 5, 2016. <https://comicsverse.com/sonny-kohli-robert-kaul/>

TEDx Talks, "The Future of Healthcare at Home: Sonny Kohli," <http://www.tedxtoronto.com>. October 27, 2016. <http://www.tedxtoronto.com/speakers/dr-sonny-kohli/> [last accessed April 6, 2017].

Interviews with ROM Managing Director, Marianne Mader

Budani, Brittany. "Profile: Marianne Mader," www.rom.on.ca. August 22, 2016. <https://www.rom.on.ca/en/blog/profile-marianne-mader>

Marianne Mader's personal website: <https://www.mariannemader.com/#intro>

Sage, Amanda. "Marianne Mader, geologist-planetary scientist-tinkerer," kickasscanadians.ca. November 25, 2015. <https://kickasscanadians.ca/marianne-mader/> [last accessed April 6, 2017].

Interviews with Canadian Astronaut, Jeremy Hansen

Armes, Chris. "Q&A" Astronaut Jeremy Hansen," <http://www.queensu.ca/gazette/>. September 26, 2016. <http://www.queensu.ca/gazette/stories/qa-astronaut-jeremy-hansen> [last accessed April 6, 2017].

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Buck, Genna. "Question and Astronaut: Jeremy Hansen," <http://www.macleans.ca>. August 26, 2015. <http://www.macleans.ca/society/science/question-and-astronaut-jeremy-hansen/> [last accessed April 6, 2017].

Canadian Space Agency Biography: <http://www.asc-csa.gc.ca/eng/astronauts/biohansen.asp>

Lindores, Sharon. "Astronaut Jeremy Hansen on challenges, teamwork and the space business," <http://business.financialpost.com>. April 18, 2016. <http://business.financialpost.com/executive/leadership/astronaut-jeremy-hansen-on-challenges-teamwork-and-the-space-business> [last accessed April 6, 2017].

Star Trek and Science Articles and Resources:

Batchelor, David Allen. "The Science of Star Trek," <https://www.nasa.gov>. July 20, 2016. https://www.nasa.gov/topics/technology/features/star_trek.html [last accessed April 6, 2017].

Berlin, Jeremy. "'Star Trek' is right about almost everything," <http://news.nationalgeographic.com>. June 16, 2016. <http://news.nationalgeographic.com/2016/06/star-trek-science-space-astronomy-technology-fazekas/>. [last accessed April 6, 2017].

Fazekas, Andrew. *Star Trek: The Official Guide to Our Universe: The True Science Behind the Starship Voyages*. National Geographic, 2016.

Lorditch, Emilie. "Making the Science Fiction of 'Star Trek' a Reality," www.insidescience.org. September 2, 2016. <https://www.insidescience.org/news/making-science-fiction-star-trek-reality> [last accessed April 6, 2017].

Science Film Festivals

Goethe Institut Science Film Festival: <http://www.goethe.de/ins/th/prj/wif/enindex.htm>

Imagine Science Film Festival: <http://imaginesciencefilms.org/>

Northstar Science Film festival: <http://www.northstarscience.org/the-festival-what/>

Raw Science Film Festival: <https://filmfreeway.com/festival/RawScienceFilmFestival>

Scinema International Science Film Festival: <https://filmfreeway.com/festival/SCINEMAInternationalScienceFilmFestival>

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Science and Art Projects and Initiatives

100 Year Starship: <http://100yss.org/>

Canada 2067: <https://canada2067.ca/en/about/>

Canada Aviation and Space Museum: <http://www.casmuseum.techno-science.ca/en/index.php>

Canada Science and Technology Museum: <http://www.cstmuseum.techno-science.ca/en/index.php>

Multiverse at the University of California, Berkeley Space Sciences Laboratory:
<http://multiverse.ssl.berkeley.edu/>

Steam Horizon Awards: <http://steamhorizonawards.ca/>

STEM to STEAM, Rhode Island School of Design: http://www.risd.edu/about/STEM_to_STEAM/

ThingTank Lab: <http://www.criticalmaking.com>

Two Bit Circus Foundation: <http://twobitcircus.org>

Makerspaces in Ontario

Diyode (Guelph, ON): <http://www.diyode.com>

HackLab.TO (Toronto, ON): <https://hacklab.to/>

Kwartzlab Makerspace (Kitchener, ON): <https://www.kwartzlab.ca>

MakeWorks (Toronto, ON): <http://www.makeworks.com/>

Site 3 coLaboratory (Toronto, ON): www.site3.c

STEAM Centre (St. Thomas, ON): <https://www.steameducation.ca/>

STEAM Labs (Toronto, ON): <http://steamlabs.ca/>

unLondon (London, ON): <http://www.unlondon.ca/>

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Other Resources for Makers

Makerwiz. "Canadian Makerspaces", <https://makerwiz.com>. February 13, 2016.
<https://makerwiz.com/canadian-makerspaces/>

Maker Festival (Toronto ON): <http://makerfestival.ca/>