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Ancestral Science Podcast

The Ancestral Science Podcast explores scientific topics through conversations between Knowledge Keepers and Scientists, while *experiencing* the origins and depth of science on and with “the Land”. Join us as science COMES ALIVE when knowledges are shared alongside ancestor plants, rocks, animals, and rivers, creating connections between personal, Indigenous, and global science. The Ancestral Science podcast is a place for *everyone* to see themselves in science, to be inspired by the SCIENCE that is all around them and expand the definitions of both *ancestor* and *science*.

SEASON 3: Episode 26 with **Dr. DAN Longboat** “Science and Relationality of Perpetual Regeneration”

We were grateful to speak with **Dr. DAN Longboat** who is Turtle Clan of the Mohawk Nation, originally from Six Nations community on the Grand River. Dan helped create some of the OG Indigenous Education programs in Canada, weaving together Indigenous and Western Knowledge Systems at Trent University. We learned about many of the OG Indigenous Scholars of Turtle Island, their contributions to UNDRIP and TRC and much more. Dan shared our responsibility to prepare for the swingback of the pendulum, through rethinking energy and extraction, through giving back to the land and knowledges, and remembering the teachings of those OG scholars and our Ancestors (both human, Land, and more than human). Remember to take a moment to learn from the strawberries, they share with us the importance of connection, collaboration, and reciprocity.

Remember, you can support the pod and rock some unique Indigenous Science merch at www.relationalsciencecircle.com/shop, all proceeds go towards Knowledge Keeper honoraria, following protocols, and keeping the pod going.

Please like, share, follow, and rate the pod, it goes a long way to share this knowledge.

Appreciation to [Shingwauk Kinooomaage Gamig](#) for hosting us, to [Melanie Goodchild](#) for all your support and the introduction to Uncle Dan, and [CASC](#) for supporting the gathering. Thanks to Emil Starlight ([@mikadikadzi_redfoot](#)), the pod’s multimedia podcast producer and [Walter White Bear](#), Sharon Ann Foster, and Emil Starlight for composing and performing our opening tune.

Questions for the Pod? Email us at relational.science@gmail.com

SHOWNOTES:

-we recorded at to [Shingwauk Kinooomaage Gamig](#), a teaching and research centre of excellence in Anishinaabe education. Dan spoke of the importance of this centre in relation

to the nearby residential school, [Shingwauk Indian Residential School](#). Like many former residential schools, re-claiming the space as a place to re-frame its stories (but not forget) while also uplifting voices of community and land while supporting education is so important. This is a place to education through positivity, cooperation, and respect.

-[Dr. Dan Longboat](#) is an associate professor at Trent University, Chanie Wenjack School for Indigenous Studies, Director of Indigenous Environmental Studies.

“a student’s perspective- [The History of Chanie Wenjack School for Indigenous Studies: 50 Years on a Road Less Travelled](#)” (article).

-a article sharing the history of Indigenous Studies at Trent University, the first university in Canada and second in North America to have an academic department dedicated to ‘the student of Aboriginal peoples’

-Dan was inspired by how inspired his professors at Trent were to him as a student, they were “inspired by the culture” and supported their students in being leaders

-Dan brings in original treaty of collaboration between worldviews of his Lands, Six Nations, often called the Two-Row Wampum Belt, where the Dutch Ship and Canoe sail together, parallel, respecting each other’s worldview and space, while working together. Below are all the names Dr. Dan referenced:

-“[Taking Care of Each Other and The River of Life with Dr. Dan Longboat](#)” (video). Legacy Project.

-“[Great Law of Peace](#)”

-“[Thinking in Indian: a John Mohawk Reader](#)” (book)

-“[The Peacekeeper: Oren Lyons’ Endless quest to preserve Indigenous Values](#)”

-[Chief Oren Lyons](#)- Onondaga Indian Nation Chief & Faithkeeper

-“[Americans Who Tell the Truth: Oren Lyons](#)”

-“[Basic Call to Consciousness](#)” (book) by Chief Oren Lyons, with John Mohawk and José Barreiro.

-address to United Nations and Indigenous Rights

-helped start [UNDRIP](#)

“We are on a pendulum that is swinging far to the right...and have to PREPARE for when it moves back”

-PREPARE by re-thinking “resources” and “extraction:

“[Survive & Thrive](#)” (video) with John Mohawk

“[Living in the Shadow of a Black Hydra](#)” (article) by Timothy B. Leduc

“[Mother Earth under Attack](#)” (article) by Danny Beaton, [Cultural Survival](#)

“[Stolen Resources](#)” (article) by Tom Goldtooth

-PREPARE by “giving back”

“[Plant Baby Plant](#)” Robin Wall Kimmerer- raise a garden, raise a ruckus

“[What Nature Teaches us about Giving Back](#)” Robin Wall Kimmerer (video)

“[Reclaiming the Honorable Harvest](#)- TEDx Sitka” Robin Wall Kimmerer

“[Alberta Native Plant Council](#)” or find the local NATIVE plants in your area!

Embrace all the [pollinators](#), Supporting [Pollinators in Canada](#)

-PREPARE by “using your voice”

-read, listen, watch [Leanne Betasamosake Simpson](#)

“[How to steel a canoe](#)” (one of Kori’s favourites)

“[Islands of Decolonial Love](#)”

-PREPARE by “teaching and learning” (learning from some of the OG Indigenous Scholars)

-[Winona LaDuke](#) (Mississippi Band Anishinabeg)- check out ALL the things she has done, but here are the links to the “[Alternative Radio show](#) – Audio for Energy for Democracy” and “[Rights of Nature: An Indigenous Worldview](#)” that Dr. Dan was speaking about.

“[Organic Rising- Demystifying Organic Agriculture](#)”

-[Regis Pecos](#) (Pueblo)- Indigenous Governance and Development

“[Returning to our Indigenous Core Values](#)” (video)

-the responsibilities we have for our place

-honouring our Ancestors and the Future

-understanding the Earth and Spirit

“[Honoring Our Nations, Our Successes, and Our Values](#)” National Congress of American Indians (video)

“[A Respected S.F. power broker with humble beginnings](#)” (article)

“[Regis Pecos on Cochiti Pueblo’s battle against the US Corp of Engineers](#)”

-**Marie Battiste**, Mi’kmaw educator, professor activist.

“[Dr. Marie Battiste & Dr. Sa’ke’j James Youngblood Henderson | Learning with Syeyutsus](#)”

“[Decolonizing Education: Nourishing the Learning Spirit](#)” Marie Battiste (book)

“[Protecting Indigenous Knowledge and Heritage](#)” James Sa’ke’j Youngblood Henderson and Marie Battiste

“[Indigenous Knowledge in Education with Marie Battiste](#)” (video)

*SOOO many more links to **LEARN MORE** on our website-

www.relationalsciencecircle.com” **

Final thoughts from Dr. Dan Longboat:

“All is Alive and All has Energy”

“To have perpetual regeneration, we have the choice to participate”

“We can complement the energy of the trees and river...a way to give back”

“Be the best berry you can be!”

[The Gift of Strawberries](#)- (excerpt from “Braiding Sweetgrass” by Robin Wall Kimmerer”)

[Strawberry Teachings](#)- Elder Lillian Pitawanakwat

-Additional Links:

“[Dr. Dan Longboat](#)” interview with Dan, the Director of Trent University’s Indigenous Environmental Studies and Sciences Program.

“[Dan Longboat in Conversation with Joe Brewer: Finding a Third Way](#)” (video). Legacy Project.

“[Critical Elements for local Indigenous water security in Canada: A Narrative review](#)” *journal of water and health* (2018). Article by T. Latchmore, C. Wallace, Dan Roronhiakewen Longboat, S. Dickson-Anderson.

“[Engaging eco- hermeneutical methods: Integrating Indigenous and environmental curricula through an eco- justice- arts- informed pedagogy](#)” (2016), article by A. Kulnieks, Dan Roronhiakewen Longboat, K. Young.

“[Indigenous Environmental Knowledge and Politics](#)” with Dr. Dan Longboat, Larry McDermott, Peter Andréé on *The Ecopolitics Podcast*.

“**Yarning Systems Science**” Ancestral Science Podcast episode with Dr. MELANIE GOODCHILD (back in Season 1!), [spotify](#), [apple](#).

<http://www.melaniegoodchild.com/>

Two Row Wampum Belt, more info <https://honorthetworow.org/learn-more/history/>

"Relational Systems Thinking: that's how change is going to come, from our Earth Mother" by Melanie Goodchild

<https://jabsc.org/index.php/jabsc/article/view/577>

"Reparations and Reconciliation: Embracing Indigenous Social Innovation and Changing the Rules of Philanthropy" by Melanie Goodchild

<https://thephilanthropist.ca/2019/08/reparations-and-reconciliation-embracing-indigenous-social-innovation-and-changing-the-rules-of-philanthropy/>

"Duck Shit Tea: Yarning and the Magical Space between things," by Melanie Goodchild

https://static1.squarespace.com/static/5edef2eb3032af28b09b8cc3/t/636c6d31450b0f0bc4b9aaeb/1668050232743/DuckShitTea_22-11-09_vf.pdf

What is Yarning? <https://www.yarning.com.au/what-is-yarning>

Want more Indigenous Science Resources? Check out [Relational Science Circle](#).

Want to learn more about Indigenous Science, Indigenous Science/Mathematics Teacher PD sessions, or have an idea for a guest or topic for the Ancestral Science Podcast, email relational.science@gmail.com

Gratitude to the OG support from Juan-Carlos Chavez, ongoing teachings gifted from Elders and Knowledge Keepers, Ancestors of past and future, and all the science and knowings of Stones and Stars.

