



2026 Viewbook

TDSB/OISE Collaboration in **Environmental & Sustainability Education**

tdsbeco
SCHOOLS



UNIVERSITY OF TORONTO
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FOR STUDIES IN EDUCATION



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Introduction

Starting in October 2017, the TDSB EcoSchools Program formalized its collaboration with the Ontario Institute for Studies in Education (OISE) at the University of Toronto. From the outset, this collaboration took a fully integrated approach to professional learning for preservice and inservice teachers in Environmental & Sustainability Education (ESE). This built on an existing informal collaboration that had begun between these institutions in 2006; combining expertise and resources has proven to be of great benefit for both organizations in expanding the breadth and depth of their work supporting teachers' professional learning in ESE and more recently, in Climate Education (CE).

By working together, this School Board-University collaboration has offered year-round opportunities for TDSB inservice teachers and OISE preservice teachers to engage in webinars, workshops, courses, summer institutes, and camps, programs, annual conferences, school tours and special events focused on a wide range of topics, from nature-based inquiry to educational gardening to food literacy, from waste and energy education to environmental racism and climate justice. This collaboration was funded by the school board's Environmental Legacy Fund, generated by the sale of clean energy produced by the installation of solar panels on 350+ school roofs.

This innovative collaboration is unique in its depth, breadth and longevity in North America, and has demonstrated the potential of all levels of education to work together to work towards a sustainable, equitable and just world.



Executive Summary



Seeding through Professional Learning Events

- 51 webinars and 2350+ webinar participants
- 10 annual conference with 2975+ conference participants
- 900+ participants in Cultivating Connections year-end event
- 340+ System Leaders involved in ESE learning



Growing Strong Roots through Intensive Learning

- 170+ inservice teachers involved in intensive AQ courses
- 60 inservice teachers completed the Climate Literacy & Leadership Program, involving 1400+ students in Climate Ed
- 150+ inservice & preservice teachers involved in Climate Camp



Propagating Leadership through Knowledge Mobilization

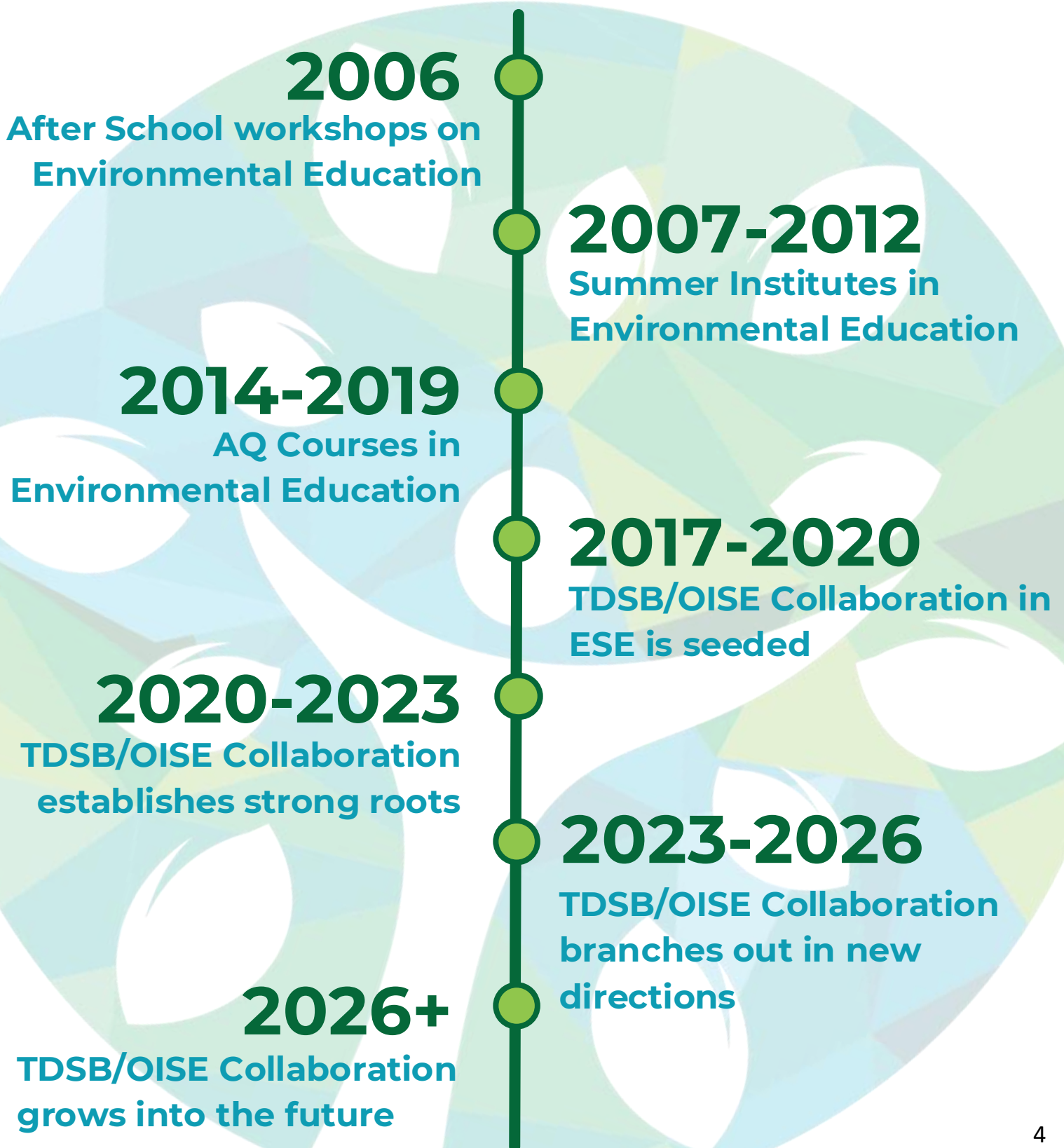
- 35 inservice teacher-researchers on the Action Research team
- 14 journal articles & research summaries created
- 4 research studies conducted in alignment with the TDSB/OISE collaboration



Branching into New Learning

- 120 preservice teachers in the Ryerson PS cohort
- 3000+ volunteer hours provided to Ryerson PS students
- 210+ community partners involved in the TDSB/OISE collaboration

Timeline





SEEDING GROWTH THROUGH PROFESSIONAL LEARNING EVENTS



**Workshops & Webinars
Conferences & EcoFairs
Pollinating Partnerships
Special Events
System Leaders' Team**

ESE Workshops & Webinars

An entry point into professional learning for many TDSB teachers and OISE preservice teachers has been the diverse range of in-person workshops and online webinars offered in ESE since 2017. ESE experts - Indigenous knowledge-keepers, OISE faculty and researchers, master gardeners, and many TDSB teachers - engaged teachers in stimulating and creative ways to share the potential of ESE's interdisciplinary and inclusive approaches to learning. A shift to digital learning was made quickly during the pandemic, remaining popular due to its ease of access.

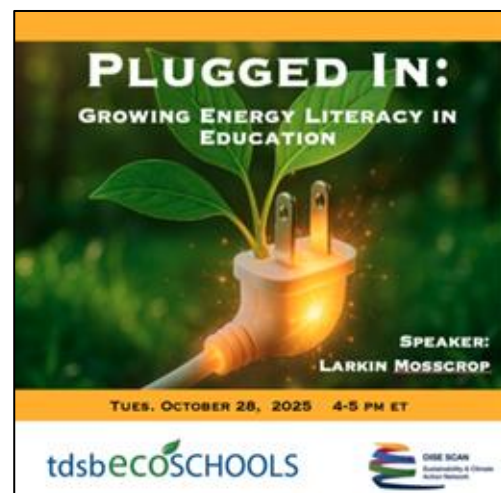
From 2017 – 2026:

- *51 hour-long webinars*
- *2380 webinar participants*
- *3927 video views*
- *30 afterschool talks/workshops*
- *526 in-person event participants*
- *12 Platinum school visits*

ESE Workshops & Webinars

Webinars included:

Self-Care and Earth Care (2020)
Integrating Learning Through Nature Journaling (2020)
Eco-Racism: The Black Canadian Experience (2020)
Indigenous Land-Based Teaching and Learning (2020)
Cultivating Green School Grounds (2021)
Supporting Youth-led Climate Action in Schools (2022)
Counting on Nature: Taking Math Outside (2022)
Equitable Approaches to Outdoor Learning (2023)
Effective Strategies for Climate Change Education (2024)
Waste Not, Want Not: Reducing Not Recycling (2026)



...the knowledge that I gain...deepens my understanding of the world and they bring knowledge and activities that I'm able to share with the students. It supports my teaching. It's my own learning...I think it's benefited me a lot.

TDSB Teacher



Workshops included:

Growing Approaches to Eco-Art (2017)
Drama Inquiry for Social Justice (2019)
International Perspectives on Climate Ed (2019)
Digging into Urban Farming (2023)

View the archived recordings of the [ESE Webinars](#)

ESE Conferences

The TDSB & OISE have collaboratively offered an annual conference and EcoFair to support professional learning for both TDSB teachers and OISE students since 2016. This full day event has included a keynote address and a range of experiential workshops on topics related to ESE and CCE. In tandem, the EcoFair hosts TDSB partners and community organizations to share their educational programs and resources with those in attendance to support the delivery of ESE with TDSB students.



From 2017-2025:

- 2979+ teachers involved
- 204+ workshops offered
- 167+ presenters
- 10 Keynote Speakers
- 175+ EcoFair exhibitors

“

Great job to everyone who was involved and special thanks to the organizers who organized one of the best conferences I have ever attended in my professional career which spans over 50 years. Thank you for giving voice to those who have not been given the opportunity to speak before - youth, people of colour, Indigenous educators. Thank you for weaving eco-justice throughout the conference sessions not just in "special" sessions.

TDSB Teacher

”

ESE Conferences

Conference Themes 2016-2026:

Climate of Change (2016)

Health, Wellness & Sustainability: Environmental Education in Action (2017)

Engaging in EcoJustice: Environmental Education & Equity in Action (2018)

A New Climate: Climate Action in Our Classrooms (2019)

Exploring the Nature of Cities: Urban Environmental Ed in Action (2020)

Climate Courage: Educators Addressing the Climate Crisis (2021)

Connecting with Communities: Educating for Climate Justice in School (2022)

Accelerating Climate Change Education (2023)

Making the Invisible Visible in Climate Change Education (2024)

Energizing Climate Change Education (2025)

Harvesting Knowledge: Linking Food Justice & Climate Action (2026)

I look forward to seeing this conference for years to come as it provides such important professional learning for educators.

TDSB Teacher



Cultivating Connections

Pollinating Partnerships was originally conceived in 2014 as a special event to share findings from a TDSB/OISE research study. It proved so popular that it has been offered at the end of each year to showcase and celebrate the incredible work of K-12 teachers and administrators involved in the EcoSchools Program. While the name changed to *Cultivating Connections* after the pandemic, its intention to support the cross-pollination of ideas and promising practices in ESE between inservice and preservice teachers continues. It has been offered at both OISE and in TDSB schools, highlighting curricular and pedagogical innovations in educational gardens and school ground design; keynote speakers, TDSB teachers and OISE scholars have shared their expertise to inspire new practice in subsequent school years.



From 2014-2026:

923+ TDSB teachers & OISE preservice teachers have been involved in these year-end events

System Leaders' Events

In recent years, the TDSB/OISE collaboration has begun initiating opportunities to gather system leaders in the TDSB, including principals and vice-principals keen to expand their understanding and practices of how best to support ESE and Climate Education. Beginning with a series of consultations, this team has organized a series of webinars to share promising practices with system leaders across the school board.

Webinars:

Principals as Catalysts for Climate Change Education (2025)

Connecting Climate Change Education to SIPS & the MYSP for TDSB P/VPs (2025)

Leading Climate Action during the Pandemic (2021)

Principals' Perspectives on Outdoor Learning (2021)

340+ TDSB systems leaders & teachers registered for these webinars



Special Events

Each year the TDSB/OISE collaboration has offered opportunities for teachers who have connected through its programs to re-connect, share experiences, and continue to build a strong community of educators dedicated to ESE and Climate Education. Some of these events have included:

- *Introduction to Climate Change Education*
- *Natural Curiosity for K-8 Learners and Diving Deep into Water Education*
- *Below the Surface: Linking Water Education to Plastic Pollution*
- *Focus on Food Education*
- *Leadership in Environmental & Sustainability Education*
- *Changing the Climate in K-12 Education: How Educators & Students can Address the Climate Crisis*
- *Earth Month Celebration*
- *Regeneration through Indigenous Creativity*





GROWING STRONG ROOTS THROUGH INTENSIVE LEARNING

Summer Institutes

Additional Qualification Courses

Climate Literacy & Leadership Program

Climate Camp



Summer Institutes



184 teachers engaged in six institutes 2007-2012

Beginning in 2007, a summer intensive environmental learning program for TDSB teachers was offered over six years. Working in collaboration with Evergreen, the TDSB's EcoSchools Program and OISE, an annual three or four day institute was designed and delivered to provide K-8 teachers with professional learning focused on curricular integration, nature-based and place-based learning, and eco-literacy. Located in TDSB schools with innovative schoolyards, these institutes modeled how school communities can develop their yards into rich learning grounds. These institutes proved so popular that they provided the impetus to establish Additional Qualification courses in Environmental Education in the years that followed.

"I was really inspired by everything. The ideas and activities were all very real and transferable, and I look forward to trying many of these activities with my students and sharing them with my fellow teachers."

TDSB Teacher



EE AQ Courses

OISE created and offered Additional Qualification (AQ) courses in Environmental Education to TDSB inservice teachers from 2014-2022. The intensive courses ran in-person each summer, fall and spring, and then shifted online in 2020 (in response to the pandemic). OISE was the only university to offer these courses in-person, modelling place-based, experiential pedagogies. The AQ Courses in Environmental Education were offered in three parts; TDSB teachers who successfully completed all three achieved the designation of *Environmental Education Specialist*, and were invited to join the TDSB's Action Research Team, lead workshops and webinars, and were offered other leadership opportunities.



172 TDSB Teachers took
259 AQ courses in EE



Climate Literacy & Leadership Program

The Climate Literacy and Leadership Program (CLLP) was designed to support teachers to lead Climate Education (CE) with their students, beginning in Kindergarten and continuing through Grade 12. It was built on a collaborative inquiry approach, using teachers' interests, experiences and knowledge in CE to begin, and aims to support teachers' ongoing learning about climate justice education, deepen their practice in leading CE with their students, model CE for their colleagues, as well as encourage community members to engage with mitigating and adapting to climate change locally.

- 60 TDBS teachers (42 elementary & 18 secondary) have completed the CLLP
- 1400+ students involved in Climate Education inquiries in classrooms



Climate Literacy & Leadership Program



A Sampling of Climate Education Inquiries from CLLP Teachers & their Students:

- *Students become Agents of Change by Strengthening their Love of Nature.* Kindergarten, North Bridlewood JPS
- *Fostering Empathy between Students & the Environment.* Grade 1/2, Dunlace PS
- *So You want to Make Maple Syrup?* Grade 2/3, Cresthaven PS
- *The True Cost of Clothing: Learning how Fast & Sustainable Fashion Affects our Earth.* Grade 4, Islington JMS
- *Humberside Students Conquer High Park!* Grade 9, Humberside CI
- *East York Students Initiate Climate Action Plan.* Grade 9, East York CI
- *Climate, Community & Cultivation: Growing Food to Address Urban Food Insecurity & Climate Change.* Grade 9-12 MID, Central Technical School

Climate Camp

As an intensive, place-based form of professional learning, Climate Camp has offered K-12 teachers and OISE students three days of rich collaborative inquiry focused on Climate Education (CE) at the TDSB's *Mono Cliffs Outdoor Education Centre* in Caledon. Organized by OISE in collaboration with the TDSB's *Sustainability Office* and its *Urban Indigenous Education Centre* (UIEC), it has a strong focus on Indigenous Education as an integral part of CE. A variety of keynotes, workshops, indoor and outdoor activities has provided inservice and preservice teachers with opportunities for holistic, experiential and impactful learning to prepare for transformative teaching that centres equity, inclusion and reconciliation.



- 110 TDBS teachers, administrators & staff and 43 OISE preservice teachers have participated in Camp since 2024
- 4 keynote talks & 28 workshops in Climate Education since 2024

Climate Camp



“

I thoroughly enjoyed meeting like-minded educators, learning various ways to teach climate change, engaging in climate conversations, and going on the hikes ... the facilitators and Camp staff were friendly, knowledgeable, and accommodating. Thank you for the wonderful opportunity to learn at this Camp.

TDSB Teacher”



*Read the full
[Climate Camp
Case Study](#)*

Camp Feedback:

- 92% of survey respondents rated the overall quality of their professional learning experiences at Camp as very high/high
- 100% of respondents agreed or strongly agreed that their knowledge of climate issues and understanding of Indigenous Education improved
- 92% of respondents agreed or strongly agreed that they improved their understanding about teaching strategies & action with students in Climate Education





PROPAGATING LEADERSHIP THROUGH KNOWLEDGE MOBILIZATION

Action Research Team

Praxis Project

Research Studies

Conference Presentations

Publications



Action Research Team

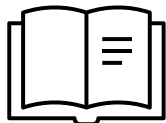
Part of the collaboration between TDSB/OISE has been to add to the field of educational research with a focus on practitioner-led research into Environmental & Sustainability Education (ESE). This has involved leading a TDSB/OISE Action Research team of teacher-researchers exploring the impacts of ESE and Climate Education in their classrooms, organized and supported by OISE faculty members and graduate students. The work of this team has led to positive impacts on teachers' practice and leadership in ESE, as well as many forms of knowledge mobilization, inspiring other educators through presentations, webinars, and publications. The team is also helping to educate the next generation of TDSB teachers by supporting OISE students in research and practicum placements. A recent review of the related research literature showed that this continues to be the only team of K-12 teacher-researchers focused on ESE in North America.



2025/26 Team: Front Row (L to R) Jenn Vetter, Bonnie Mullrooney, , Stephanie Shelley, Florencia Esteверена, Beka Ly, Hongliang Hu, Hilary Inwood (OISE), Paul Hackl, Alexandra Goumakos, Dan Kunanec. Back Row (L to R): Alison Williams, Stefanie Hall, Sarah Urquhart (OISE), Alorani Hahn, Sylwia Halas, Jessie Sawyers, Amanda Humphreys, Nancy Gillis, Dimitra Tsanos, Alicia Roberge (TDSB Sustainability Office). Missing from the photo: Laurie Labrecque.

Action Research Team

Journal Articles



- Hongliang Hu (2025). [Exploring Climate Literacy in the Kindergarten Classroom](#), *Young Children Journal*.
- Hongliang Hu (2024). [Using action research to infuse nature-based loose parts play into the Kindergarten Program](#), *Early Years: An International Journal of Research and Development*.
- Hongliang Hu (2022). [Rethinking nature journaling in the Kindergarten Program action research in learning and teaching](#). *Journal of Outdoor & Environmental Education*.
- Hilary Inwood (2021). [Growing Action Research on Environmental Learning in Schools: A School-University Partnership](#). *Educational Action Research*.
- Jesse Sawyers & Amanda Humphreys et al (2021). Beautiful Ecologies: Deepening Connection. Innovations in Early Education: *The International Emilio Reggio Exchange*.

Research Summaries



- Bonnie Mulrooney & Monica Fennema. [How do we intentionally build a community of environmental leaders that have the capacity to take Climate Action within their school community?](#)
- Alison Williams. [How can I be a bridge to connect and broaden student awareness of their local school community, and how can they learn more about the changes that have occurred, and that are currently occurring?](#)
- Dimitra Tsanos. [How can journaling about place-based education support students' connections to nature?](#)

Webinars/Presentations



- [Community-based Action Research in Environmental & Sustainability Education](#) – Hilary Inwood, Dimitra Tsanos, Beka Ly, & Alison Williams
- [Environmental Learning in Action: Teacher Inquiry in the TDSB](#) – Paul Hackl, Aloranni Hahn, Hongliang Hu, & Dimitra Tsanos
- [How Environmental Education can Contribute to a 'Just' Recovery](#) - Pam Miller, Jenn Vetter, Chris Metropolis
- [Eco-Teaching & E-Learning](#) - Rebecca Chahine, Nancy Gillis, Bonnie Mullrooney, Patricia Heibein, Adrienne Rigler and Marion Shanks
- [Reconnecting With Nature: Action Research On Nature-Based Learning in The Kindergarten Program](#) - Hongliang Hu and Patricia Heinbein
- [Adventures in Citizen Science](#) - Catherine Kurucz and Linda Ryan
- [Natural Collaborations: Exploring Teachers' Action Research into Environmental Education](#) - Hilary Inwood, Catherine Kurucz, Adrienne Rigler, Linda Ryan & Hongliang Hu
- [Beautiful Ecology: Deepening Connection to Place](#) - Amanda Humphreys & Jessie Sawyers
- [Nurturing Local Water Education](#) - Adrienne Rigler & Marion (Gigi) Shanks

Action Research Team

Praxis Project

The Praxis Project was launched in 2022 to partner teacher-researchers from the Action Research Team with OISE graduate students to accelerate theoretical and pedagogical progress in action research into ESE. This collaboration aimed to build partnerships between TDSB teacher-researchers and OISE preservice teachers in its Master of Teaching program. It supported data collection and analysis while simultaneously providing a 'hands on' introduction to action research for graduate students.



Research Studies

Celebrating and sharing the significant achievements of the TDSB's EcoSchools program is an added benefit to the TDSB/OISE collaboration. As the TDSB has the largest and most successful EcoSchools program in Canada, sharing its development, approach, and strategies can inspire other school boards and educational partners to follow suit. Both the TDSB's EcoSchools Program and OISE are eager to learn more about the experiences and impacts of this collaboration on the professional learning of TDSB teachers and OISE students involved in it, so a four- research study is underway to better understand the impacts of this work.

...developing communities of people that care about [ESE] provide a bottom-up approach that's bigger than just my own individual actions and that's where I'm starting to experience more hope.

TDSB Teacher

Key Research Question: *What are the learning needs, expectations, experiences and impacts of inservice and preservice teachers involved in the TDSB/OISE Collaboration on ESE Professional Learning?*

Phase 1 – Identifying Learning Needs and Expectations of Inservice & Preservice Teachers

Phase 2 – Experiences and Involvement of Inservice & Preservice Teachers

Phase 3 – Impacts on Teaching Practices of Inservice Teachers involved in the Collaboration

Phase 4 – Experiences of and Impacts on Inservice & Preservice Teachers involved in Climate Camp

*11 surveys
6 focus groups
52 interviews
6 journal articles
15 presentations*

To date, the first phase of the study has been completed and shared through an article in the *Canadian Journal of Environmental Education* and four conference presentations. The second phase was delayed due to the pandemic; a journal article is under review and its findings have been shared through two conference presentations. Data analysis for phases three and four are in process, with data collection and data analysis completed and writing underway.

Research Studies



...these experiences that OISE and TDSB have been able to provide me with have really allowed me to be a deep thinker and a critical thinker about environmental education.

TDSB Teacher

Journal Articles:

- Inwood, H. Urquhart, S., Williams, A., Ly, B., Pinnell, I. & Kunanec, D. (under review). Enacting a collaborative approach to action research about Environmental and Sustainability Education through a school/university partnership.
- Inwood, H., Kennedy, A. & Pham, T. (under review). *Integrating Professional Learning in Environmental and Sustainability Education through a School/University Partnership*.
- Inwood, H. (2022). Growing action research on environmental learning in schools: a school-university partnership. *Educational Action Research*, 30(4), 604–608. Inwood, H. (2020). Emerging praxis of environmental and sustainability education in teacher education in Canada. *Journal of Philosophy of Education*, 54(4), 825–831.
- Inwood, H. & Kennedy, A. (2020). [Creating a Climate of Change: Professional Development in Environmental and Sustainability Education through University and School Board Partnerships](#). *Canadian Journal of Environmental Education*, 23(1), 68-84.
- Inwood, H. (2020). [Certified Green: The TDSB's EcoSchools Program is growing into a national school movement](#). Education Canada Magazine.
- Inwood, H. (2019). Growing innovative approaches to environmental and sustainability education in teacher education programmes. In D. Karrow & M. DiGiuseppe (Eds.) *Environmental and sustainability education in teacher education: Canadian perspectives* (pp. 209-223.) Springer.



BRANCHING INTO NEW LEARNING

**The Ryerson Cohort
Partnerships
ACCE-TE**



The Ryerson Cohort

OISE coordinated a school-based cohort of preservice teachers centred on Social & EcoJustice Education as part of its Master of Teaching Program from 2016 to 2021, based out of the TDSB's Ryerson Community School. Ryerson K-8 teachers and OISE preservice teachers formed close partnerships focused on ESE and ecojustice, aligning with Ryerson's commitment to promoting social justice, anti-racist education and environmental sustainability. Over 3000 volunteer hours were contributed by the preservice teachers and OISE faculty to this school community; over 150+ lessons were taught by preservice teachers in its classrooms, 20+ practicum placements were hosted, and a variety of EE projects were initiated and supported by preservice teachers in the school, including supporting the creation of three eco-art installations and the foundations for a school garden.



Community Partnerships

The TDSB/OISE Collaboration in ESE has drawn on the expertise of community partners from the outset, with both organizations bringing in existing partnerships to support professional learning for preservice & inservice teachers. Internally, the TDSB brought valuable contributors from the Urban Indigenous Education Centre and the Toronto Outdoor Education Centres, and OISE brought scholars from across the University of Toronto and other Canadian faculties of education.

Key Partners:

Evergreen, a national charitable organization dedicated to making cities more livable, was a key partner in the early years of the TDSB/OISE collaboration. In addition to many years of collaboration with the TDSB's Sustainability Office on schoolground greening, it supported six years of Summer Institutes in ESE for TDSB teachers that were co-organized with OISE; these eventually turned into the Additional Qualifications courses run by OISE. More recently, Evergreen is co-hosted the annual TDSB/OISE conference in CCE at their Brickworks site.

Foodshare is a non-profit organization that advocates for food justice through community-based food initiatives and ongoing advocacy and public education. Their staff has partnered on many events for the TDSB/OISE collaboration, including providing keynote talks, workshops, webinars and conference presentations. It has hosted a number of tours and site visits at Foodshare-run school gardens across the city.

Accelerating Climate Change Ed in Teacher Ed (ACCE-TE) has worked with the TDSB/OISE collaboration in recent years by providing a national platform through which TDSB/OISE could share ESE webinars with K-12 teachers across the country. It also provided a national E-course in Climate Justice Education for many TDSB teachers and sponsored a [Case Study on Climate Camp](#) that was distributed nationally.

210+ community partners have participated in the annual EcoFair since 2016

Other Community Partners:

- EcoSchools Canada
- Learning for a Sustainable Future
- Natural Curiosity
- Green Teacher Magazine
- Canadian Network for Environmental Education and Communication (EECOM)
- Green Thumbs, Growing Kids
- High Park Nature Centre



Gratitude

The TDSB/Collaboration in ESE has been led by a small but mighty set of educators, staff and students over the decade it has been running. The original idea for this school board/university collaboration began with Richard Christie (Senior Manager of the TDSB Sustainability Office) and was coordinated by Pam Miller (TDSB) and Dr. Hilary Inwood (OISE) with support from Kristen Evers, Jenn Vetter and Alysse Kennedy; more recently, Alicia Roberge, Chris Metropolis and Sarah Urquhart have been key contributors. We are deeply appreciative of all those named below who have lent their knowledge, skills and expertise to this make this collaboration successful. Heartfelt thanks also go to the inservice and preservice teachers who have participated in these programs and translated their learning into teaching, learning and action with their students and communities!



*Pam Miller,
Richard Christie*



*L to R:
Alicia Roberge,
Sarah Urquhart,
Jenn Vetter,
Hilary Inwood,
Kristen Evers,
Chris Metropolis,
David Montemurro*

TDSB administrators, teachers & staff:

Richard Christie, Pam Miller, Kristen Evers, Jenn Vetter, Chris Metropolis, Alicia Roberge, David Hawker-Budlovsky, Torie Gervais.

OISE faculty, staff & students:

Dr. Hilary Inwood, Dr. David Montemurro, Bessie Giannikos, Sarah Urquhart, Helen Huang, Alysse Kennedy, Louise Hobisha Schuch, Candice Corda, Angela Oulton, Tien Pham.

Special Contributors:

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*For more information about the TDSB/OISE Collaboration in ESE,
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