



OCTE Annual Conference Agenda

OCTE Agenda Conférence annuelle

May 11th - 13th, 2017

Du 11 au 13 mai 2017

Hilton Meadowvale, Mississauga, Ontario



AGENDA

OCTE Elementary Day | May 13th, 2017
Hilton, Mississauga, Meadowvale

SATURDAY MAY 13, 2017

Time	Agenda Item	Location
7:00am to 9:00am	Registration	
7:30am to 9:00am	Breakfast	
Session 1		
9:00am to 10:15am		
Session 1A Primary Session Group: Inquiry Through Technology 1		
<p>Participants will learn how to use technology to bring inquiry to life in their primary classrooms. Safety, technology techniques, and STEM connections will be the focus of this hands-on workshop with a highlight on activities that can be used immediately with students. Participants will use storybooks to launch the inquiry-based learning with building opportunities that can easily be connected to their curriculum areas in meaningful ways that enhance student engagement.</p> <p><i>Sue Philip, HDSB and Kerry Langer, PVNCCDSB</i></p>		<p>South Studio #1 <i>Max Number 24</i> English</p>
Session 1B Junior Session Group Beginning Builds-Introductory Tech. Skills That Support Inquiry Based Learning in Grades 4-6		
<p>Participants will complete hands-on builds that address basic tool use and introductory making skills. Attendees will have the opportunity to work collaboratively with other teachers as they continue learning how to build technology and inquiry into their classrooms. Topics will include safety, classroom management, efficient use of materials & equipment, assessment and evaluation, resources and planning technological inquiry units.</p> <p><i>Darren Foy, RDSB</i></p>		<p>South Studio #2 <i>Max Number 24</i> English</p>
Session 1C Intermediate Session Group The Basics of Building		
<p>Participants will safely learn how to use technology to bring inquiry to life in their intermediate classrooms. Safety, technological problem-solving, technology techniques and STEM connections will be the focus in this hands-on workshop with a highlight on skill builders that can be used immediately with students.</p> <p><i>Ingrid Munson HDSB</i></p>		<p>South Studio #3 <i>Max Number 24</i> English</p>
Session 1D Primary Session Mentor Group Tinker Building Primary		
<p>Participants will have a discussion surrounding leadership and mentorship and how to support innovation in Science and Technology education. Participants will have an opportunity to explore the use of tinkering to jump start the inquiry process in their classroom. Ideas on how to evolve those basic projects into more in-depth projects using hand tools will be the primary focus</p> <p><i>Greg Burke, Paula Walker, OCDSB, Kidder</i></p>		<p>North Studio #1 <i>Max Number 24</i> English</p>
Session 1E Junior Session Group (mentors) Shuffle Bug Boogie: Understanding Matter and Energy: Electricity and Electrical Devices.		
<p>Tinkering with variables will be strongly encouraged in their hands-on investigation. Using a minimum amount of materials, workshop participants will construct a simple circuit, then design, build and test a simple vibrobot that transforms electrical energy into movement. Curriculum connections and extensions will be identified.</p> <p><i>Ian Darling, DSBN</i></p>		<p>North Studio #2 <i>Max Number 24</i> English</p>
Session 1F Intermediate Session Mentor Group: Explore Design Thinking with the MakerMobile! Introduction to 3-d Printing		
<p>Come explore how 3D printing fits into the design model. Learn about this great new technology, how to design in 3D and use it! See how uOttawa MakerMobile could support your classroom by providing workshops, materials and creativity! See how teachers across Ottawa are using these technologies to create multidisciplinary challenges that support the art, math and history curriculums in hands on dynamic ways. The uOttawa Maker Mobile is a Makerspace on wheels. Using the latest technologies, it travels to schools, libraries and community centers to deliver fun, hands-on workshops to encourage creativity, problem solving and interest in technology! We offer workshops mostly in the Ottawa Gatineau region for K-12 including 3D printing, laser cutting Arduino microcontrollers, robotics , programming, electricity and green engineering</p> <p><i>uOttawa Maker Mobile Team</i></p>		<p>North Studio #3 <i>Max Number 24</i> English</p>

Time	Agenda Item	Location
	<p>Session 1G Nouvelles ressources en Sciences et Technologies</p> <p>Cette session débutera avec une activité pratique provenant de la nouvelle ressource « Sciences on explore! » Suite à cette activité, les participantes et les participants auront l'occasion de découvrir la nouvelle série « Mission sciences! » pour la 4e, 5e et 6e année. La session terminera avec une discussion ouverte où les participantes et participants pourront partager des idées de besoins à combler pour appuyer leur enseignement des sciences et technologie à l'élémentaire.</p> <p><i>Francis Cronier-Thériault, Ministère d'Éducation</i></p>	<p><i>Max Number 24</i> French</p>
10:15am to 10:30am	Break and Travel Time	
Session 2 10:30am to 11:45am		
	<p>Session 2A Primary Session 2 Inquiry Through Technology 2 "Stay Calm & Build On"</p> <p>Participants will have an opportunity to work collaboratively with other teachers to support each other as they continue their journey in building technology and inquiry into their classrooms. Topics will include safety considerations, classroom management strategies, efficient material/equipment usage, assessment & evaluation, resources and technological inquiry activity planning.</p> <p><i>Sue Philip, HDSB and Kerry Langer, PVNCCDSB</i></p>	<p>South Studio #1 <i>Max Number 24</i> English</p>
	<p>Session 2B Junior Session 2 Bigger Builds- Extensions For Basic Tech. Skills That Support Inquiry Based Learning in Grades 4-6</p> <p>Participants will complete hands on builds that extend basic tool use and introductory making skills. Attendees will have the opportunity to work collaboratively with other teachers as they continue learning how to build technology and inquiry into their classrooms. Topics will include safety, classroom management, efficient use of materials & equipment, assessment and evaluation, resources and planning technological inquiry units.</p> <p><i>Darren Foy, RDSB</i></p>	<p>South Studio #2 <i>Max Number 24</i> English</p>
	<p>Session 2C Intermediate Session 2 Build It Further</p> <p>Participants will have an opportunity to work collaboratively with other teachers to support each other as they continue their journey in building technology and inquiry into their classrooms. Topics will include safety considerations, classroom management strategies, efficient material/equipment usage, assessment & evaluation, resources and technological inquiry activity planning.</p> <p><i>Ingrid Munson HDSB</i></p>	<p>South Studio #3 <i>Max Number 24</i> English</p>
	<p>Session 2D Primary Session: Wandering and Wondering about the Natural World</p> <p>Participants will discover how to use nature walks in their community as a basis for teaching and learning about Science and Technology through discussions and building projects. These hands-on projects are meaningful and inspired by observations and experiences that students have in their outdoor surroundings. Interactions between students and nature will serve as a catalyst for sparking curiosity, developing "habits of mind", and strengthening numeracy and literacy skills through technological problem-solving and practice-based learning. Participants will have an opportunity to build samples at their grade level to take with them to use in their classrooms. Topics will include safety, classroom management strategies, efficient use of natural and human-made materials, assessment & evaluation and resources</p> <p><i>Greg Burke, Paula Walker, OCDSB, Kidder</i></p>	<p>North Studio #1 <i>Max Number 24</i> English</p>
	<p>Session 2E Mining Matters How to Integrate Minerals Education into 4-6 Classroom</p> <p>Part 1. Looking Inside ROCKS: The study of mineral properties is fundamental to the identification of rocks and the interpretation of the environment in which rocks are formed. A Smart Device Microscope is designed to look inside rocks using polarized films will be used to explore minerals and textures of various types of rocks. Learn about rock types and BYOD to take some memorable pictures. Part 2. Headframe Challenge: A headframe is a structural frame above an underground mine shaft. A mine shaft transports workers, materials, and mobile equipment and is used for ventilation. They provide the height needed to access the mined ore when it is hoisted out of the ground. Participants will investigate the engineering behind headframes and underground mines, and collaboratively work to build a headframe that can hoist the most weight from "underground" to the surface.</p> <p><i>Kelly McBride (Mining Matters)</i></p>	<p>North Studio #2 <i>Max Number 24</i> English</p>
	<p>Session 2F Cyber Arts STEAM Your Class Today. . .and Tomorrow</p> <p>Join Shaun Grant and Ray Mercer as they share the different ways they promote and integrate STEM?STEAM and Design Thinking within their classroom and library learning commons. Through dialogue and hands-on play, participants will explore robotics, problem based learning and lots of ideas.</p> <p><i>uOttawa Maker Mobile Team Shaun Grant and Ray Mercer, TDSB</i></p>	<p>North Studio #3 <i>Max Number 24</i> English</p>

Time	Agenda Item	Location
11:45am to 12:00pm	Lunch	
Session 3 1:00pm to 2:15pm		
<p>Session 3A Primary Session 3 Inquiry Through Technology 2 “Stay Calm & Build On”</p> <p>Participants will have an opportunity to work collaboratively with other teachers to support each other as they continue their journey in building technology and inquiry into their classrooms. Topics will include safety considerations, classroom management strategies, efficient material/equipment usage, assessment & evaluation, resources and technological inquiry activity planning.</p> <p><i>Sue Philip, HDSB and Kerry Langer, PVNCCDSB</i></p>		<p>South Studio #1 <i>Max Number 24</i> English</p>
<p>Session 3B Junior Session Bigger Builds- Extensions For Basic Tech. Skills That Support Inquiry Based Learning in Grades 4-6</p> <p>Participants will complete hands on builds that extend basic tool use and introductory making skills. Attendees will have the opportunity to work collaboratively with other teachers as they continue learning how to build technology and inquiry into their classrooms. Topics will include safety, classroom management, efficient use of materials & equipment, assessment and evaluation, resources and planning technological inquiry units.</p> <p><i>Darren Foy, RDSB</i></p>		<p>South Studio #2 <i>Max Number 24</i> English</p>
<p>Session 3C Intermediate Session: Build It Further</p> <p>Participants will have an opportunity to work collaboratively with other teachers to support each other as they continue their journey in building technology and inquiry into their classrooms. Topics will include safety considerations, classroom management strategies, efficient material/equipment usage, assessment & evaluation, resources and technological inquiry activity planning.</p> <p><i>Ingrid Munson HDSB</i></p>		<p>South Studio #3 <i>Max Number 24</i> English</p>
<p>Session 3D Primary Session: Wandering and Wondering about the Natural World:</p> <p>Participants will discover how to use nature walks in their community as a basis for teaching and learning about Science and Technology through discussions and building projects. These hands-on projects are meaningful and inspired by observations and experiences that students have in their outdoor surroundings. Interactions between students and nature will serve as a catalyst for sparking curiosity, developing “habits of mind”, and strengthening numeracy and literacy skills through technological problem-solving and practice-based learning. Participants will have an opportunity to build samples at their grade level to take with them to use in their classrooms. Topics will include safety, classroom management strategies, efficient use of natural and human-made materials, assessment & evaluation and resources,</p> <p><i>Greg Burke, Paula Walker, OCDSB, Kidder</i></p>		<p>North Studio #1 <i>Max Number 24</i> English</p>
<p>Session 3E Mining Matters How to Integrate Minerals Education into 4-6 Classroom</p> <p>Part 1. Looking Inside ROCKS: The study of mineral properties is fundamental to the identification of rocks and the interpretation of the environment in which rocks are formed. A Smart Device Microscope is designed to look inside rocks using polarized films will be used to explore minerals and textures of various types of rocks. Learn about rock types and BYOD to take some memorable pictures. Part 2. Headframe Challenge: A headframe is a structural frame above an underground mine shaft. A mine shaft transports workers, materials, and mobile equipment and is used for ventilation. They provide the height needed to access the mined ore when it is hoisted out of the ground. Participants will investigate the engineering behind headframes and underground mines, and collaboratively work to build a headframe that can hoist the most weight from “underground” to the surface.</p> <p><i>Kelly McBride (Mining Matters)</i></p>		<p>North Studio #2 <i>Max Number 24</i> English</p>
<p>Session 3F Cyber Arts STEAM Your Class Today. . . and Tomorrow</p> <p>Join Shaun Grant and Ray Mercer as they share the different ways they promote and integrate STEM? STEAM and Design Thinking within their classroom and library learning commons. Through dialogue and hands-on play, participants will explore robotics, problem based learning and lots of ideas.</p> <p><i>uOttawa Maker Mobile Team Shaun Grant and Ray Mercer, TDSB</i></p>		<p>North Studio #3 <i>Max Number 24</i> English</p>
2:15pm to 2:30pm	Break and Travel Time	

Time	Agenda Item	Location
Session 4 2:30pm to 3:45pm		
	<p>Session 4A Junior/Intermediate Session: Skills Ontario</p> <p>This workshop will include a demonstration of a Technology Challenge run annually at Skills Ontario's Ontario Skills Competition. This challenge generally requires teams of 4 people to complete a task utilizing the tools provided within a specific time frame. Participants will be judged according to a criteria that will be outlined prior to the start of the Challenge. Teachers will be involved in a simulation of this challenge.</p> <p><i>Paula Walker/Skills Ontario</i></p>	<p>North Studio #1 <i>Max Number 24</i> English</p>
	<p>Session 4B Beyond Science How you can use tech in several different subject areas.</p> <p>Why just use tech when we are teaching Science and Technology? How can we build student skill and capacity more efficiently? How can we make better use of our schools tech resources? Use tech in other subjects! Geared towards intermediate teachers, this workshop will demonstrate how you can use several different subject areas (e.g. history, geography and math), and will provide time to collaborate and brainstorm with other teachers to plan tech use outside of the science classroom.</p> <p><i>Jenn McCoy (HDSB)</i></p>	<p>South Studio #2 <i>Max Number 24</i> English</p>
	<p>Session 4C Primary Stem Engineering Hands on real world problem solving and inquiry</p> <p>Engage your students with hands-on, real world problem solving and inquiry. Learn how to engage your youngest minds and connect science, math and technology to their every-day lives. Develop thinkers and creators through STEM Engineering and watch your students become engaged citizens and community members. Walk away with concrete ideas and resources that are not only practical, but will also inspire you to take your teaching to the next level.</p> <p><i>Shevaun Ang And Annelies Groen (TDSB)</i></p>	<p>South Studio #3 <i>Max Number 24</i> English</p>
	<p>Session 4D Junior Session Group (mentors) Shuffle Bug Boogie: Understanding Matter and Energy: Electricity and Electrical Devices</p> <p>Tinkering with variables will be strongly encouraged in their hands-on investigation. Using a minimum amount of materials, workshop participants will construct a simple circuit, then design, build and test a simple vibrobot that transforms electrical energy into movement. Curriculum connections and extensions will be identified.</p> <p><i>Ian Darling, DSBN</i></p>	<p>South Studio #1 <i>Max Number 24</i> English</p>
	<p>Session 4E Mining Matters How to Integrate Minerals Education into 7-8 Classroom</p> <p>Part 1. What's Yours is Mined: Through the identification of select mineral/rock properties, connect natural resources to the products we use every day. Learn about the processes involved in transforming minerals into products we use. Part 2. Mining Matters in Ontario: Explore the various types of mines (hard Rock):pits, quarries, surface and underground, then compare and contrast each type. Part 3. Power to the People Design Challenge: Investigate green energy generation and the minerals that make it possible. Complete a timed design challenge by working collaboratively to build a windmill that can generate the highest reading on the voltmeter.</p> <p><i>Kelly McBride (Mining Matters)</i></p>	<p>North Studio #2 <i>Max Number 24</i> English</p>
	<p>Session 4F Junior and Intermediate Session Getting Hands On with VEX IQ</p> <p>In this session, attendees will work hands on with VEX IQ pieces. Presenters will walk attendees through a variety of tasks, including one designed specifically to introduce users to the basic of programming the VEX IQ "brain". Some links to curriculum will be made- other tasks may work better in an extra-curricular program. Both presenters have experience in VEX (grades 5-8) and FRC(grades 9-12)robotics and would be happy to answer questions or offer advice on all things robotics related. NOTE: Vex IQ kits and up to 12 laptops loaded with appropriate software will be provided.</p> <p><i>Marcella Fioroni and Tony Lam, Conference of Independent Schools, Crescent School</i></p>	<p>North Studio #3 <i>Max Number 24</i> English</p>



Ontario Council for Technology Education

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