



NOVEMBER 27 – 29, 2018
DoubleTree by Hilton Manchester Downtown

32ND
ANNUAL

Co-Sponsored by
NH School Administrators Association **NHSAA**
NH ISTE Affiliate **NHSTE**

in collaboration with
NH School Library Media Association **NHSLMA**
NH CoSN Affiliate **NHCTO Council**



Reach for the
Stars

IMPORTANT REMINDERS

NEW HOTEL NAME The conference venue has a new name, it is now the DoubleTree by Hilton Manchester Downtown. Along with the new name are more exciting renovations on the first floor ~ a new meeting room, restaurant, and bar await CMTC18 attendees, presenters, and solution partners!



DOUBLETREE
BY HILTON™

NEW CONFERENCE NAME We have enhanced the name of our conference to tell the whole story. CMTC is about Christa McAuliffe's vision of transforming teaching with technology by sharing best practices among colleagues, thus we are now the Christa McAuliffe Transforming, Teaching, and Technology Conference!

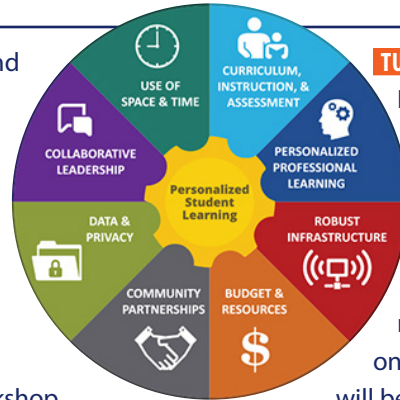
Christa
McAuliffe
TRANSFORMING
TEACHING
TECHNOLOGY
Conference

FUTURE READY LINK All sessions and workshops are aligned to the Future Ready Framework as a component of this statewide effort.

OFFSITE MONDAY PRECONFERENCE Included in the twenty-three Monday PreConference opportunities is an OFFSITE workshop titled *Make Your Learning Commons the Hub of YOUR School* at the Hollis Primary School. Elizabeth Currier and Sarah Proulx will be your hosts for the day, see [page 13](#) for all the details.

CONCURRENT SESSIONS SHORTENED Concurrent sessions are now 50 minutes long, see [pages 24-29](#) for 2018 offerings.

MONDAY FORUMS Leadership forums from 3:30 to 5:00pm are focused on topics of critical importance to district - and school-level leadership. See [page 23](#) for descriptions of these forums presented by our keynote, spotlight, and distinguished speakers. Our free parent forum happens on Monday evening from 6:30 to 8:00pm, see [page 19](#) for all the details on the parent forums.



TUESDAY BREAKFAST The Partner Pavilion opens immediately following the keynote on Tuesday morning, so head directly to the Armory for breakfast after picking up your name badge at the registration area. Breakfast on Wednesday and Thursday will be back in the center of Partner Pavilion as in the past.

SHOWCASES & PLAYGROUNDS EVERY DAY Explore Student Showcases in the morning, Teacher Showcases in the afternoon, and EdTech Playgrounds both AM and PM in the Partnership Pavilion EVERY day, Tuesday, Wednesday, and Thursday, see [page 31](#) for Showcases and Playgrounds confirmed to date.

THURSDAY SCHEDULE FLIPPED This year Thursday's schedule begins at 8:00am with three concurrent sessions and time in the Partner Pavilion prior to the keynote luncheon at 12:00pm with Jennie Mageria. Then head to the Partner Pavilion for dessert and the final concurrent session followed by the closing session and raffle, see [pages 8 & 9](#) for all the Thursday details.

The Christa McAuliffe Transforming, Teaching, & Technology Conference highlights the sharing of successful teaching and learning strategies that integrate technology resources among educators. The conference serves as a forum for exchanging technology-based success stories, integration tips, instructional strategies, technical solutions, and management techniques that really work in the learning environment. Based upon the concept of collegial sharing, the primary focus is on what is possible with the resources we have available today. The conference also provides an opportunity to investigate new and emerging technologies.

★ Sheila Adams ★ Nicole Anderson ★ Tammy Andrew ★ Nicole Bellabona ★ Natalie Breen ★ Mary Cantlin ★ Nicole Cassamassino ★ Brian Chagnon ★ Cathy Collins ★ Libby Curran ★ Penny Currier ★ Kathleen Dasho ★ Christina DeBello ★ Micah Depper ★ Karen Desjaton ★ Holly Doe ★ Christine Donoghue ★ Heather Drolet ★ Chantal Duval ★ Edith Fogarty ★ Ethel Gaides ★ Gary Girolimon ★ Pam Harland ★ Joelle Henry ★ Mallory Higgins ★ Jenifer Hollander ★ Melissa Jellison ★ Elizabeth Juster ★ Helen Kelley ★ Kathryn Liston ★ Jennifer Lowton ★ Joanna Marcotte ★ Kathleen McClaskey ★ Allison Mollica ★ Ray Palin ★ Vasiliki Partinoudi ★ Laurie Prewandowski ★ Jonathan Reed ★ Debra Rodd ★ Doug Roy ★ Susan Sabella ★ Kimberly Scantlebury ★ Robin Scott ★ Craig Sheil ★ Rachel Small ★ Beth Sommers ★ Julie Spang ★ Kristen Sullivan ★ Christina Swenson ★ Carol Todd ★ Susan Tuttle ★ Irina Tuule ★ Jeremy VanDerKern ★ Laurie Wallmark ★ Laurie Williams ★ Denise Wood ★ Frank Xydias ★ Maureen Yoder ★ Helfried Zrzavy ★

Over 60 educators to date have been selected to serve as McAuliffe presenters. These innovators have discovered exciting ways to use technology as a tool for teaching and learning.

McAuliffe educator presentations are shown in the program with a star ★ placed by their names.

Dedicated to the memory of Christa McAuliffe, our New Hampshire "teacher in space" astronaut who died in the Challenger shuttle tragedy on January 28, 1986, this conference is designed to:

- honor teachers as instructional experts
- provide an opportunity for networking among and between teachers, administrators, and exhibitors
- encourage teachers to share technology expertise with colleagues
- highlight strategies that engage students while significantly impacting student achievement
- explore new and emerging strategies with the capacity to allow each student to reach their full potential



Our "stars" share their experiences with you. We thank all of the courageous educators listed for presenting their stories, successes, and challenges. They each contribute so much to the Christa McAuliffe Technology Conference and continue to steadfastly pave the way toward brighter tomorrows. To each of you, continue to "Reach for the Stars"; and instill in your students the passion to do the same!

Cyndi Dunlap, NHSTE Christa McAuliffe Technology Conference Chair



FROM THE GOVERNOR & TABLE OF CONTENTS



CHRISTOPHER T. SUNUNU
Governor

STATE OF NEW HAMPSHIRE OFFICE OF THE GOVERNOR

November 27, 2018

Dear Friends:

Welcome to the 32nd Annual Christa McAuliffe Transforming Teaching Technology Conference.

Christa McAuliffe was a courageous woman and a dedicated teacher. Though she lost her life in the 1986 Challenger explosion, her bravery and ingenuity have not been forgotten. Christa McAuliffe was aware of her important position as an educator, and used every opportunity to ensure that her students understood both history and technology. It is in this spirit that Christa McAuliffe Transforming Teaching Technology Conference was created.

It is incredibly important that New Hampshire's educators be innovative in their classroom. This conference is a wonderful way for teachers to immerse themselves in technology, shares successful strategies, and integrate these new ideas into their teaching, and I applaud everyone participating for their efforts to learn more in order to benefit students.

New Hampshire is home to many smart and capable young people who are poised to lead our State into the future. It is our responsibility that New Hampshire's students grow up to be capable adults able to compete in an ever changing economy. This conference is an important part of that effort, an effort that is in keeping with Christa McAuliffe's legacy.

I thank the New Hampshire School Administrators Association and the New Hampshire Society for Technology in Education for sponsoring this event, and thank you to all of those in attendance. My best wishes for another successful conference!

Sincerely,

Christopher T. Sununu
Governor

107 North Main Street, State House - Rm 208, Concord, New Hampshire 03301
Telephone (603) 271-2121 • FAX (603) 271-7640
Website: <http://www.governor.nh.gov/> • Email: governorsununu@nh.gov
TDD Access: Relay NH 1-800-735-2964

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Inside back cover Thanks to Sponsors & Solution Partners



Mark your calendars now for the
Christa McAuliffe
Transforming, Teaching,
& Technology Conference
November 26-28, 2019
Watch for details in the mail in the
spring of 2019 and on our website
www.nhcmtec.org



CONFERENCE STEERING COMMITTEE & SOCIAL MEDIA

The Christa McAuliffe Transforming, Teaching & Technology Conference (CMTC) co-sponsors express their heartfelt appreciation to the following people who invest countless hours each year planning the CMTC as members of the Steering Committee.

ROY BAILEY	Director of Technology, Bow SD
BREWSTER BARTLETT	Student Showcase Lead
MALLORIE BLEVINS	Office Assistant, NHSAA
DEB BOISVERT	Student Showcase & EdTech Playground Supervisor
SUSAN CAVANAUGH	EdTech Playground Co-Lead
CYNDI DUNLAP	CMTC Co-chair & NHSTE Professional Learning Chair
STAN FREEDA	Learning Consultant, NHDoE, NHSTE President 2018-19
JERRY FREW	Associate Executive Director, NHSAA
JOE GRUCE	Teacher Showcase Lead
CARL LADD	Executive Director, NHSAA
JENNIFER LOWTON	Director of Technology, Farmington SAU 61
JEN MENSAH	Event Coordinator, NHSAA
ANDREA O'NEIL	EdTech Playground Co-Lead
GLEN PAGE	Systems Administrator, Thetford Academy
NANCY ROSE	Director of Technology & Library Media, Merrimack SD
DIANA PETSCHAUER	AT Consultant, Assistive Technology Support
JUSTINE THAIN	Library Media Director, Hooksett School District, NHSLMA
FAITH WILSON	Office Manager, NHSAA



Just this past summer NASA teacher in space and astronaut, Ricky Arnold, conducted some of Christa's lost lessons on the Space Station. View the Chromatography lesson on YouTube: bit.ly/ChristaChromatography



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#NHCMTCTC



Follow Christa
McAuliffe
Technology
Conference
on LinkedIn



Check in at
NHCMTCTC
on Swarm



www.nhcmtctc.org
Use hashtag #NHCMTCTC to share and
find info & photos of the conference!

The CMTC Steering Committee would like to thank SMCC Professor Rachel Guthrie, who designed the print program and Jim Kennedy, Exeter Internet Solutions, website developer for the professional services provided to CMTC.

If you are interested in serving on the CMTC Steering Committee, please contact Carl Ladd at carl@nhsaa.org.

TUESDAY 8:00-9:30 IN THE ARMORY

WELCOME

Dr. Carl Ladd, Executive Director, NHSAA

Dr. Brendan Minnihan, President, NHSAA

ISTE HIGHLIGHTS

Dr. Joseph South, Chief Learning Officer, ISTE

KEYNOTE: TODAY'S MODERN LEARNING ENVIRONMENT: MORE THAN A NEW COAT OF PAINT

Ginger Lewman, Edupreneur, Author, Co-creator of *LifePractice PBL Model*, Creator of STEAMmaker Camps, Education Consultant, Technology Integration Specialist, Google Certified Innovator.
Join Ginger for her concurrent sessions in Pemigewasset.

CONCURRENT SESSION TITLES and their respective presenters are clustered according to the 8 Future Ready Framework Gears on [pages 24 to 25](#) to help you decide which day has the best sessions for you.

AT-A-GLANCE SCHEDULES AND FULL SESSION DESCRIPTIONS can be viewed, searched, and printed from the CMTC website: www.nhcmctc.org. To view, download, and print what you need, click ATTEND on the home page, choose PROGRAM, then make your selection from the list of options. To search the session database for special interests click on RESOURCES and then select SESSION SEARCH.



Keynote Speaker's Presentations are marked by this microphone, look for the symbol throughout the brochure to find their sessions



TUESDAY AT-A-GLANCE

General Registration	7:00am	Expo Center Concourse
Continental Breakfast	7:30 – 10:00	Armory
Welcome & Keynote	8:00 – 9:30	Armory
Solution Partner Networking	9:30 – 10:20	Partner Pavillion
BYOD Session 1	9:30 – 11:30	Frost-Hawthorne
Teacher Showcases	10:00 – 11:30	Partner Pavillion
AM EdTech Playgrounds Teachers Solution Partners	10:00 – 11:30 10:00 – 12:00	Partner Pavillion
Concurrent Session 1	10:20 – 11:10	(multiple locations)
Solution Partner Networking	11:10 – 12:00	Partner Pavillion
Lunch (sit down & box)	11:00 – 1:15	Partner Pavillion
Concurrent Session 2	12:00 – 12:50	(multiple locations)
Solution Partner Networking	12:50 – 1:40	Partner Pavillion
BYOD Session 2	12:00 – 1:00	Frost-Hawthorne
Student STEAM Showcase	1:30 – 3:00	Partner Pavillion
PM EdTech Playgrounds Teachers Solution Partners	1:30 – 3:00 1:00 – 3:30	Partner Pavillion
Concurrent Session 3	1:40 – 2:30	(multiple locations)
BYOD Session 3	1:30 – 3:00	Frost-Hawthorne
Solution Partner Networking & Dessert	2:30 – 3:10	Partner Pavillion
Concurrent Session 4	3:10 – 4:00	(multiple locations)
BYOD Session 4	6:30 – 8:30	Frost-Hawthorne

A print copy of the most up-to-date At-A-Glance matrix will be provided onsite each day of the conference at the registration desk.

GINGER LEWMAN Edupreneur, Author, Co-creator of LifePractice PBL Model, Creator of STEAMmaker Camps, Education Consultant, Technology Integration Specialist, Google Certified Innovator

Ginger Lewman is national consultant and keynote speaker with ESSDACK, a non-profit education service center based in Hutchinson Kansas. She inspires and helps all levels of educators figure out the daily realities of Project/Problem Based Learning, technology integration, along with working with gifted and high-ability learners. Ginger is passionate about helping educators rethink and revision what teaching and learning can be in today's world. There is nothing better than watching the faces of educators as they watch their own students get excited about learning and doing things that they never thought were possible. As an educator, Ginger sees herself as a resource, not THE source.

VISIT Ginger's website for more information at <http://gingerlewman.com>

Today's Modern Learning Environment: More than a New Coat of Paint

Today's kids have one foot in yesterday's values and one foot in tomorrow's realities. Our responsibility as educators and thought leaders is NOT to find a secure balance across that chasm, but to create opportunities for them to take a smart leap into tomorrow with yesterday's values ingrained! But it is no small task to make that shift. What are your schools doing differently today to get students ready for their tomorrow? Are you making real changes or are you just repainting the same old house a different color? This high-energy keynote highlights various classrooms and instructional practices that are winning in schools right now. Kids are not just compliantly attending classes in these schools; they are clamoring for more. Come learn the gamut of possibilities and how you can lead your school community into tomorrow.

Ginger conducts the following workshops and concurrent sessions:

Monday at 3:30pm **ASKING THE HARD QUESTIONS ABOUT EDUCATIONAL CHANGE**

Monday at 6:30pm **STEAMMAKER: SCIENCE, TINKERING, ENGINEERING, AESTHETICS, & MATHEMATICS**

Tuesday at 10:20am **CREATING SCHOOLS THAT KINDLE THE INNER FIRES OF LEARNING**

Tuesday at 1:40pm **BIG 5 MUST-HAVE TOOLS FOR LEARNING BY DOING**

CHECK WWW.NHCMTC.ORG FOR FULL SESSION DESCRIPTIONS



WEDNESDAY 8:00-9:30 IN THE ARMORY

WELCOME

Dr. Carl Ladd, Executive Director, NHSAA
Mr. Stan Freeda, President, NHSTE

KEYNOTE: CREATING FUTURE READY SCHOOLS & CLASSROOMS

Thomas Murray, Director of Innovation for Future Ready Schools, 2017 Education Thought Leader of the Year, Author, Consultant. Join Tom for his concurrent sessions in Pemigewasset.

NHSTE ANNUAL AWARDS Presented by NHSTE Awards Chairperson

- ★ The **NHSTE Educator Award** is named in memory of Pat Keyes. Pat was a teacher in Keene and served NHSTE in many capacities including editor of the NHSTE Connections newsletter. She was awarded the NHSTE Technology Educator of the Year in 1993. We strive to reach the example she set for all of us.
- ★ The **NHSTE Impact Award** is named in memory of Sue Janosz. Sue was a longtime employee in Manchester serving as a technology integrator where she collaborated with teachers to enhance their teaching potential. We seek to honor Sue's spirit and keen sense of humor that brought the best out in everyone.

CONCURRENT SESSION TITLES and their respective presenters are clustered according to the 8 Future Ready Framework Gears on [pages 26 to 27](#) to help you decide which day has the best sessions for you.

AT-A-GLANCE SCHEDULES AND FULL SESSION DESCRIPTIONS can be viewed, searched, and printed from the CMTC website: www.nhcmctc.org. To view, download, and print what you need, click ATTEND on the home page, choose PROGRAM, then make your selection from the list of options. To search the session database for special interests, click on RESOURCES and then select SESSION SEARCH.

WEDNESDAY AT-A-GLANCE

General Registration	7:00am	Expo Center Concourse
Continental Breakfast	7:30 – 10:30	Partner Pavillion
Welcome & Keynote	8:00 – 9:30	Armory
Solution Partner Networking	9:30 – 10:20	Partner Pavillion
BYOD Session 1	9:30 – 11:30	Frost-Hawthorne
Teacher Showcases	10:00 – 11:30	Partner Pavillion
AM EdTech Playgrounds Teachers Solution Partners	10:00 – 11:30 10:00 – 12:00	Partner Pavillion
Concurrent Session 1	10:20 – 11:10	(multiple locations)
Solution Partner Networking	11:10 – 12:00	Partner Pavillion
Lunch (sit down & box)	11:00 – 1:15	Partner Pavillion
Concurrent Session 2	12:00 – 12:50	(multiple locations)
Solution Partner Networking	12:50 – 1:40	Partner Pavillion
BYOD Session 2	12:00 – 1:00	Frost-Hawthorne
Student STEAM Showcase	1:00 – 3:00	Partner Pavillion
PM EdTech Playgrounds Teachers Solution Partners	1:30 – 3:00 1:00 – 3:30	Partner Pavillion
Concurrent Session 3	1:40 – 2:30	(multiple locations)
BYOD Session 3	1:30 – 3:00	Frost-Hawthorne
Solution Partner Networking & Dessert	2:30 – 3:10	Partner Pavillion
Concurrent Session 4	3:10 – 4:00	(multiple locations)
BYOD Session 4	6:30 – 8:30	Frost-Hawthorne

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THOMAS C. MURRAY Director of Innovation for Future Ready Schools, 2017 Education Thought Leader of the Year, Author, Consultant

Murray has testified before the U.S. Congress while also working with legislators and education leaders to implement student-centered, personalized learning while helping to lead Future Ready Schools® and Digital Learning Day. Thomas was named the “2017 Education Thought Leader of the Year,” NSBA’s “20 to Watch” in 2016, one of the top 20 thought leaders in education, and “Education Policy Person of the Year” by the Academy of Arts and Sciences in 2015. His experiences in K–12 digital leadership have been recognized nationally and include implementing a 1:1 program, BYOD, blended learning, and a K–12 cyber school where he served as the director of technology and cyber education for the Quakertown Community School District in Bucks County, Pennsylvania. In addition to his role at Future Ready, he works with school and district leaders throughout the country to transform teaching and learning in their district.

VISIT the Future Ready website for more information at <https://futureready.org>

Creating Future Ready Schools & Classrooms When analyzing the US education system across our nation, we see dramatic differences and gaps in innovation. Side-by-side images of classrooms from 1918 and 2018 yields eerie similarities in many schools today, even with the 100-year difference. How can schools and classrooms transform from those of the industrial era spaces with desks in rows, students facing forward, and teachers front and center to ones that are learner-centered, personalized, and leverage the power of technology? Districts and schools across the nation are becoming Future Ready, revamping teacher empowerment, personalized professional learning, innovative learning spaces, community partnerships, and digital learning initiatives. Join Thomas as he inspires educators and provides free tools and resources to empower you to transform your district, school, and classroom into ones that better prepare students for the world they face tomorrow.

Thomas conducts the following concurrent sessions:

Wednesday at 10:20am **DIGITAL CITIZENSHIP IN EVERY CLASSROOM**

Wednesday at 1:40pm **TECH TOOLS FOR STUDENT ENGAGEMENT & TEACHER EFFECTIVENESS**

CHECK WWW.NHCMT.C.ORG FOR FULL SESSION DESCRIPTIONS



THURSDAY 12:00-1:30 IN THE ARMORY

There is no opening session on Thursday morning this year.

- **7:00** Registration opens
- **7:30** The Partner Pavilion opens and breakfast is available
- **8:00** The first 50-minute concurrent session begins

Plan ahead for time to park, and get to the first concurrent session by 8:00am! Start your day with the first three concurrent sessions and visits to the Partnership Pavilion before the luncheon Keynote, Jennie Magiera. If you missed her at ISTE17, this is your chance to hear *Our Untold Stories*.

WELCOME

Mr. Stan Freeda, President, NHSTE
Ms. Caitlin Bennett, President, NHSLMA

KEYNOTE: OUR UNTOLD STORIES

Jennie Magiera, Chief Program Officer for EdTechTeam, Author of *Courageous Edventures*. Join Jennie for her concurrent session in Pemigewasset.

THE NHSLMA ANNUAL AWARDS WERE PRESENTED ON AUGUST 15TH, 2018.

Congratulations the following award recipients:

- ★ **School Librarian of the Year** Rachel Hopkins, Salem High School
- ★ **Outstanding School Library Program** Hollis/Brookline High School
- ★ **Outstanding Paraprofessional Award** Patti Bogert, Inter-Lakes High School
- ★ **Elsie Domingo Service Award** Kristin Whitworth, Dover High School and Career Technical Center

CONCURRENT SESSION TITLES and their respective presenters are clustered according to the 8 Future Ready Framework Gears on [pages 28 to 29](#) to help you decide which day has the best sessions for you. **AT-A-GLANCE SCHEDULES AND FULL SESSION DESCRIPTIONS** can be viewed, searched, and printed from the CMTC website: www.nhcmctc.org.

THURSDAY AT-A-GLANCE

General Registration	7:00am	Expo Center Concourse
Solution Partner Networking and Continental Breakfast	7:30 – 9:35	Partner Pavillion
Concurrent Session 1	8:00 – 8:50	(multiple locations)
BYOD Session 1	8:00 – 9:30	Frost-Hawthorne
Solution Partner Networking	8:50 AM – 9:35	Partner Pavillion
Teacher Showcases	9:00 – 10:30	Partner Pavillion
AM EdTech Playgrounds Teachers Solution Partners	9:00 – 10:30 9:00 – 11:00	Partner Pavillion
Concurrent Session 2	9:35 – 10:25	(multiple locations)
Solution Partner Networking	10:25 – 11:10	Partner Pavillion
BYOD Session 2	10:30 – 12:00	Frost-Hawthorne
Concurrent Session 3	11:10 – 12:00	(multiple rooms)
Box Lunch Pick-up	11:00 – 1:00	Partner Pavillion
Keynote Luncheon	12:00 – 1:30	Armory
Solution Partner Networking and Dessert	1:30 – 2:15	Partner Pavillion
BYOD Session 3	1:30 – 3:00	Frost-Hawthorne
PM EdTech Playgrounds Teachers Solution Partners	1:00 – 3:00 1:30 – 3:30	Partner Pavillion
Student STEAM Showcase	1:30 – 3:00	Partner Pavillion
Concurrent Session 4	2:15 – 3:05	(multiple locations)
Closing Session, Raffle & Refreshments	3:05 – 3:45	Salon A

A print copy of the most up-to-date At-A-Glance matrix will be provided onsite each day of the conference at the registration desk.

JENNIE MAGIERA Chief Program Officer for EdTechTeam, Author of *Courageous Edventures*

Jennie Magiera is the Chief Program Officer for EdTechTeam, focusing on diversity and equity in education. Previously, she was the Chief Innovation Officer in Des Plaines Public School District 62, the Digital Learning Coordinator for the Academy for Urban School Leadership and a Chicago Public Schools teacher. A White House Champion for Change, Apple Distinguished Educator, Google for Education Certified Innovator and TEDx Speaker, Jennie has been working to redefine teaching and learning through innovative new practices. Jennie is also passionate about transforming professional learning, having served on the Technical Working Group for the US Department of Education's National Educational Technology Plan and co-founding PLAYDATE and other new conference concepts. Aside from her students, Jennie's great loves in life are sci-fi, mashed potatoes, Tabasco sauce, her dog and her husband.

FOLLOW Jennie on Twitter at @MsMagiera and learn more about her work and her book at bit.ly/edventuresbook.

Our Untold Stories

As educators, we spend every day helping our students learn and grow. Yet despite the myriad of unique settings and situations in which we each work, there exist single stories about our schools, our students, and our industry. As posed by Nigerian Author Chimamanda Ngozi Adichie, these single stories lead to stereotypes that while not necessarily wholly untrue, are certainly incomplete. So what are the untold stories we need to consider to avoid stereotype threat and help teachers see ourselves as change agents? Jennie Magiera shares untold stories you can amplify in order to empower educators to change the world starting in your classroom and schools.

Jennie conducts the following concurrent session:
Thursday at 2:15pm **AMPLIFYING STUDENT VOICE THROUGH SOCIAL MEDIA**

CHECK WWW.NHCMTC.ORG FOR FULL SESSION DESCRIPTIONS



SPOTLIGHT SPEAKERS

CAROL TODD Special Educator, Advocate, Parent, & Speaker

Carol has been an educator working with special needs students in British Columbia, Canada since 1984 and is currently a coordinator in her school district in the area of Assistive Technology. Making sure that students use technology effectively, efficiently and safely is of main importance. Carol created Amanda's Legacy in memory of her daughter who died by suicide in October of 2012. The legacy's mission has been to bring increased awareness and conversations to schools, families, and communities about online safety, exploitation, abusive behaviours online, and mental health. She has joined forces with like-minded individuals and organizations to create increased awareness related to these issues that need more attention. Carol is a dedicated advocate working to encourage a shift in thinking and beliefs about negative behaviors (both on and offline) to those of REFLECTION and RESPECT.



Monday Leadership Forum
3:30 to 5:00
Developing Digital Responsibility in Our Children

Monday Evening Parent Forum 6:30 to 8:00
Developing Digital Responsibility in Our Children

Tuesday concurrent session 12:00 to 12:50
Online Safety, Cyberbullying, Kindness, & Respect

Wednesday concurrent session 1:40 to 2:30
Online Safety, Cyberbullying, Kindness, & Respect

JOSEPH SOUTH, Ph.D. ISTE Chief Learning Officer

Joseph is a strategic national educational technology leader focused on evidence-based learning transformation. He formerly served as the director of the Office of Educational Technology at the U.S. DoE. In this role, he was an adviser to the Secretary of



Education and developed national educational technology policy, formed public-private partnerships to assist education leaders in transitioning to digital learning, helped school districts expand the use of openly licensed educational resources (OERs), and collaborated with stakeholders to nurture a robust ecosystem of edtech entrepreneurs and innovators. He also worked on a cross-governmental team to bring high-speed broadband, interactive devices, professional development for educators and leaders, and high-quality affordable digital content to U.S. classrooms. He is a strong proponent of the active use of technology by learners. Joseph has led learning product development teams at startups, museums, nonprofits, corporations, and higher education institutions.

Joseph has also consulted on educational projects in China, Korea, Mexico, South America and the Middle East. He holds a doctorate in instructional psychology and technology from Brigham Young University.

Monday Leadership Forum: 3:30 to 5:00
Transform Learning: ISTE Standards for Future-Focused Leaders

Tuesday Concurrent Session 10:20 to 11:10
Bring ISTE Standards to Life: New Professional Learning Opportunities

RITA OATES, Ph.D. Educator, EdTech Innovator, Grants Guru

Rita has worked at the cutting edge of technology and education more than 30 years and is president of consulting firm Oates Associates. She was the education editor of the first U.S.

online service with color and graphics, VIEWTRON. Oates won grants exceeding \$10 million as edtech director in Miami-Dade County Schools (FL), the nation's fourth largest district. She taught a graduate class, "Grant Writing for Ed Tech," at Barry University, where she chaired the graduate program in computer education and technology. Rita has presented grantwriting webinars for edWeb.net, CoSN, FAME, and workshops at ISTE, FETC, and other state conferences. She taught high school language arts and journalism



in rural, urban and suburban Kansas before earning her master's and PhD degrees at Indiana University. She evaluated large federal grants for technology teacher training in three universities and for magnet schools. She has helped schools and teachers receive grants from \$500 to \$600,000 and helped her children's middle school secure \$1.9 million. She has also presented to more than a thousand PTA meetings on edtech in school and at home. Formerly VP of education at ePals, she seeks to help world language and social studies teachers integrate authentic communication into their classrooms and all teachers to embed social emotional learning into their classroom practice. She has worked to increase opportunities for female and minority students in computing careers and has written more than a dozen books on edtech.

Monday PreConference Workshop from 8:30 to 3:30
Finding Funding & Support for Rich Digital Learning Environments

Tuesday Concurrent session 1:40 to 2:30
Social Emotional Learning: Where to Find It, How to Fund It



Thursday Concurrent session 8:00 to 8:50
The Whole Child: Social Emotional Learning with Coding & Digital Skills

HOLLY DOE, M.Ed., CETL
NHSTE Susan Janosz Award Winner,
NHCTO President, Director of
Technology Pelham SD

Holly has over 23 years experience in public education. She has served as a 4th grade teacher, STEM teacher, Technology Integrator, and currently as the Director of Technology for the Pelham School District. Holly is a National Geographic Grosvenor Teacher Fellow, a Google Certified Innovator, and received the Presidential Award for Science Teaching in 2012. She was honored to receive the NHSTE Susan Janosz Award in December of 2017. Most recently, Holly served as the President of the NHCTO organization and has helped to plan the last two NHCTO clinics with a focus on Innovative Leadership and Future Ready Schools. Holly is the mom of three very diverse children. Their interests and strengths reinforce her daily work to meet and personalize learning for the students who attend the Pelham School District.

Monday PreConference full-day workshop 8:30 to 3:30
Creating School Based Change through Future Ready Planning Workshop

Tuesday concurrent session 3:10 to 4:00
Personalized Professional Learning-Anytime! Anywhere!

Wednesday concurrent session 12:00 to 12:50
Building Your Data & Privacy Toolkit

Thursday concurrent session 11:10 to 12:00
Pelham's Path to Personalization

DAN BLACK, M.Ed
Assistant Superintendent, Londonderry SD

Dan started as a teacher through Teach for America at the P.S. Garza Elementary School in Donna, Texas, and later became a founding teacher of IDEA Public Schools in the same community. He has had considerable experience in leadership as both an instructional coach and principal in the New York City Public School system as well as in forming educational policy as an analyst in the Office of Administration and Finance for the Commonwealth of Massachusetts. Prior to coming to Londonderry, Dan

served as Assistant Superintendent for the Keene NH School District, where he assumed a full range of duties varying from budgeting to curriculum and instruction. Dan received his Bachelor of Arts in English from Vanderbilt University, and his Master's Degree in Public Policy from Harvard University. He completed his Certificate of Advanced Graduate Study in Educational Leadership from Plymouth State University.

Tuesday concurrent session 10:20 to 11:10
Being Prepared for the Next Technology Wave as a Skeptic



SPOTLIGHT SPEAKERS

CATHY COLLINS, Ed.D.

Media Specialist/Librarian

Ms. Collins has worked as a Media Specialist/Librarian for 15 years and is currently the library media specialist at Sharon High School, where she has worked for the past seven years. She holds a Doctorate in Education with a specialization in Curriculum, Leadership, Teaching and Learning; and additional Masters Degrees in Education and Library Science. She also has credentials and certification in Administration/Educational Leadership. Ms. Collins has published her writing in various journals including "E School News," "EdWeek," "ASCD Leadership Briefs," "Library Media Connection," "NEA Today," and other education-related blogs and websites including AASL's "Knowledge Quest." She is a 2012 Reynolds High School Journalism Institute Fellow and served as a project consultant for the E-Book, "Searchlights and Sunglasses: Journalism in the Digital Age." She received a "Teachers for Global Classrooms" fellowship from the U.S. State Dept. in 2014 and is the recipient of AASL's Intellectual Freedom Award (2014). She has



served on the MassCUE Board as PD Chair since 2013. Most recently, she joined the ISTE STEM PLN Leadership Team as PD Chair. She was named an MSLA "Super Librarian" in 2015, and earned National Board Certification as a Library/Media Teacher in 2009. She received the HNA "Teacher of the Year" award in 2015 for excellence in teaching about China, and served on the DESE Science Ambassador Team through 2016. In her spare time, she enjoys nature walks, reading, world travel and yoga. She also enjoys co-leading a Makerspace SIG through MassCUE. She is passionate about the use of technology as a tool to connect students to the world and each other.

*Wednesday concurrent session
3:10 to 4:00*

Makerspaces Unleashed

*Thursday concurrent session
9:35 to 10:25*

Leading the Way Toward Innovation: Digital Age Librarians

SPOTLIGHT DISTRICT

Laconia School District

Laconia is a small school district located in the heart of New Hampshire's lakes region. Three elementary schools, a middle and high school, along with the Huot Career and Technical Center serve approximately 2,000 PreK to grade 12 students and adult learners in the community. Their strategic plan identifies 2 goals around 21st Century Learning Environments: 1) The District will create a learning environment designed around the flexible use of classroom space and class time, and 2) The District will work with the staff around providing professional development in a personalized manner to meet their individual needs. A District professional development focus will be on using flexible spaces, technology, and flexible groupings in a way to meet the individual needs of each student more effectively. Join the Laconia team to hear how they are meeting these strategic goals.



ANGEL BURKE *Academic Coordinator*

SHANNON SIEGLER *Grade 8 ELA and
2017 NHSTE Pat Keyes Technology Using
Educator Award recipient*

LINDSAY MIDDLETON *Grade 8 ELA*

LISA HINDS *HS Math*

IRENE STINSON *Grade 5*

*Wednesday concurrent session
12:00 to 12:50*

Laconia's Technology in the Classroom Packs a Super Punch!

MONDAY PRECONFERENCE WORKSHOPS

MONDAY PRECONFERENCE PAYMENT is due at registration and not included in general conference registration. All PreConference workshops require pre-registration and online registration is strongly encouraged. Be sure to carefully select the PreConference workshop format (MITI or BYOD if both options are offered) you wish to attend. A confirmation email will be sent to the address used for registering. If submitting your registration through a district office, it is wise to make a copy for yourself. These workshops fill on a “first-come, first-served” basis. Those attending with a student are asked to CALL the NHSAA office for registration instructions. Questions? Contact the NHSAA office at 603-225-3230.

BRING YOUR OWN DEVICE (BYOD) workshops require you to supply the technology. Check workshop descriptions carefully as they list needed hardware and software. Your presenter may email you additional recommendations before the Thanksgiving break.






MASTER IT & TAKE IT (MITI) workshops include a device in the registration fee. The *Estimated Cost* listed is the maximum we expect to charge. Final prices will be listed on the website, on the downloadable registration form, and via online registration no later than Wednesday, September 12th, 2018. The device model and specifications will be posted on the CMTC website by Wednesday, October 3rd, 2018. **REGISTRATION DEADLINE FOR MITI WORKSHOPS is Thursday, November 1st, 2018.**









CANCELLATIONS MUST BE IN WRITING (fax or email) and received prior to Friday, November 2nd. All registration fees for PreConference workshops are non-refundable and subject to regular billing after November 2nd.

MITI WORKSHOPS ARE ALSO OFFERED AS BYOD
 attendee is responsible for bringing their own device(s) as specified on the website

7:30 AM Continental Breakfast (included in Monday registration fee)

 McAuliffe Presenters	 Keynote Speakers	 Spotlight Speakers
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Full-Day Workshops 8:00am - 3:00pm (6-hours, plus a 1-hour lunch break)	
PreC01 BYOD	<i>Finding Funding & Support for Rich Digital Learning Environments</i> Rita Oates
 PreC02 BYOD	<i>Creating School Based Change thru Future Ready Planning Workshop</i> Holly Doe, Stan Freeda
 PreC03 *MITI BYOD	<i>Master the Machine: Flipping Your Classroom with Chromebooks</i> Christina Swenson
PreC04 *MITI BYOD	<i>Paper Prototyping Bootcamp for STEAM-Powered Learning</i> Andrea Calvin, Paul Reynolds
 PreC05 *MITI BYOD	<i>Making with Raspberry Pi Computer</i> Joelle Henry
 PreC06 *MITI BYOD	<i>Google Educator Level 1 Certification Bootcamp</i> Allison Mollica
PreC07 MITI BYOD	<i>Google Apps & Extensions: Your Essential Toolkit to Support Diverse</i> Diana Petschauer
PreC08 *MITI BYOD	<i>Maximizing Learning Outcomes with MakerEd: A Pilot Program for the Future!</i> Dmitri Yakovlev, Anna Orientale, & Andy Larmand
PreC09 *MITI BYOD	<i>Bring Wonder to Your Classroom with Dash, Dot, & Cue</i> Jeff Mao
 PreC10	<i>Make Your Learning Commons the Hub of Your School - Off Site Workshop</i> Elizabeth Currier, Sarah Proulx

Leadership Forums 3:30 - 5:00pm (90-minutes)	
PreC11 BYOD	<i>Transform Learning ISTE Standards for Future-Focused Leaders</i> Joseph South
 PreC12 BYOD	<i>Developing Digital Responsibility in Our Children</i> Carol Todd
PreC13 BYOD	<i>Funding to Close Your Students' Digital Divide at Home</i> Robert McLaughlin, PHD
 PreC14 BYOD	<i>Asking the Hard Questions About Educational Change</i> Ginger Lewman
Evening Workshops 6:00 - 9:00pm (3-hours)	
PreC15	<i>Create with iPad & Apple Apps</i> Matt Brooks
 PreC16 *MITI BYOD	<i>Creating Your Own 'Google Expedition' with Your Creator</i> Craig Sheil
 PreC17 *MITI BYOD	<i>"Scratching the Programing Itch" with the New Scratch 3.0</i> Chantal Duval, Deb Boisvert
 PreC18 *MITI BYOD	<i>STEAMmaker: Science, Tinkering, Engineering, Aesthetics, & Mathematics</i> Ginger Lewman
 PreC19 *MITI BYOD	<i>Chromebooks & Chrome Extensions to Support All Learners</i> Jennifer Lowton
PreC20 BYOD	<i>AT-UDL Apps: Support Diverse Learners on ALL Devices Across the Curriculum</i> Diana Petschauer
PreC21 BYOD	<i>Blended Learning for Active Learners</i> Matthew Joseph
 PreC22 *MITI BYOD	<i>Learn. Code. Fly. Microdrones in Education!</i> Sheila Adams, Andrea O'Neil
Free Parent Forum 6:30 - 8:00pm (1.5-hours)	
 PreC23 BYOD	<i>Developing Digital Responsibility in Our Children</i> Carol Todd

WORKSHOP DESCRIPTIONS MONDAY

PREC01 8:00 AM - 3:00 PM

FINDING FUNDING & SUPPORT FOR RICH DIGITAL LEARNING ENVIRONMENTS

Rita Oates, President, Oates Associates

LEVEL: INTERMEDIATE, GRADES: ALL

COST: \$110

Explore strategies to find funding and support for the rich digital learning environment you envision for your classroom, school or district. Bring your ideas and dreams to this session. Get started on finding and winning the support you need to make your dream come true. Rita will be your expert guide on where to look for grants, providing secrets to submitting a successful grant proposal -- and what to do when you win one! She also demystifies grant budgeting and highlights program evaluation, two crucial elements that can make or break a proposal. You will draft several commonly used sections of a grant proposal and get feedback to improve them and explore crowdfunding sites and see some of the benefits (and challenges) of this kind of funding. Discover foundations that may be close to home but rarely publicized, "who must give away money for tax purposes". Leave this workshop with ideas of places and ways to find funding, sometimes using strategies that are easier and perhaps faster than grants. During her time as edtech director in Miami, FL, Rita wrote and received several multimillion-dollar grants to help fund her visions. Since then, she has taught a graduate course in grant writing for edtech at Barry University and has been a popular speaker in the edweb.net community of Education Funding. She has helped schools and districts win grants from \$500 to \$1.9 million. **Equipment:** Any computing device with access to the Internet via web browser; tablet sized screen or larger recommended. Ability to create spreadsheets and a word processor. A phone is NOT recommended for viewing information from a few of the government and foundation websites. **Software:** Chrome web browser required. Google Apps Manager Microsoft Office or equivalent with word processor and spreadsheet, browser, and ability to read documents in .pdf format.

PREC02 8:00 AM - 3:00 PM

CREATING SCHOOL BASED CHANGE THROUGH FUTURE READY PLANNING WORKSHOP

Holly Doe, Enrichment/Technology, SAU #28

& Stan Freeda, NH DoE LEVEL: BEGINNER, GRADES: ALL

COST: \$110

School-based leaders, principals (assistants), librarians, instructional coaches, tech integrators are invited to explore effective school-based leadership strategies that assist with the transformation and modernization of student learning with support from the FRS Framework. Grounded in leadership and school culture, create a plan for building strong instructional partnerships and develop an understanding of change management. Explore effective strategies and tools that support the development of a Future Ready school, while building the capacity of like-minded educators in your region. Holly shares how her district used the Future Ready Schools (FRS) Framework to create a technology plan that represents a well-rounded picture of what learning can and will look like for Pelham students and staff. With personalization at the core of the gears, Pelham's FRS plan aims to achieve the vision of "inspiring success one mind at a time." **Equipment:** Any computing device with access to the Internet; tablet sized screen or larger recommended. **No software required.**

PREC03 8:00 AM - 3:00 PM

MASTER THE MACHINE:

FLIPPING YOUR CLASSROOM WITH CHROMEBOOKS

Christina Swenson, Technology Integrator, SAU 62

LEVEL: BEGINNER, GRADES: ALL

MITI ESTIMATED COST: \$380, BYOD COST \$110

More schools are migrating to Chromebooks, and many are implementing 1:1 programs that are Chromebook exclusive. Learn how to use a Chromebook to maximize face-to-face instruction time with your students, enhance communications with families, and improve your

workflow. This little machine has a lot of power behind it, but don't let it intimidate you, master the machine! Learn how they are different from other computers, how to personalize it, how you can integrate technology in your classroom, how it works seamlessly with G Suite for Education, how to find and assign apps to students, how to troubleshoot simple Chromebook issues (and where to find support), and how to manage your digital classroom with Google Classroom. This workshop is offered in both MITI (a device is included in the workshop fee) and BYOD (bring your own device per the requirements listed) formats. **Equipment:** The MITI workshop registration fee includes a rugged, touchscreen Chromebook, no additional equipment is required for this workshop. The BYOD registration fee requires that you bring your own Chromebook. **Software:** Prior to the workshop, if you do not already have a Google account, participants are requested to create a free account at: <https://accounts.google.com/signup>.

PREC04 8:00 AM - 3:00 PM

PAPER PROTOTYPING BOOTCAMP FOR STEAM-POWERED LEARNING

Andrea Calvin, VP, Dir. of Communications/Development & Paul Reynolds, Reynolds Center TLC/FableVision

LEVEL: BEGINNER, GRADES: K-8,

MITI ESTIMATED COST: \$265, BYOD COST: \$135

From kindergarten to high school, discover how schools, libraries, and programs across the country have used research-based Fab@School Maker Studio to create practical, affordable makerspaces using paper, cardstock, and inexpensive digital fabricators. This session provides hands-on opportunities for getting comfortable with easy, paper-based digital design and fabrication software tools. Participants experience the benefits of rapid paper prototyping, which allows for quick cycles of testing and iterative design enhancements - especially helpful within limited class periods. Explore best practices appropriate to get all students (PreK-12) designing and creating.

During this session, participants also learn more about grant opportunities for New Hampshire schools in addition to discounted software pricing available through NHSTE. **Equipment:** The registration fee for the MITI workshop format includes a Silhouette Portrait and a Fab@School individual license. The BYOD registration fee includes the Fab@School Individual license but requires that you bring your own Silhouette Portrait as specified on the website. Presenters will provide Silhouette Portraits for participants to try. Participants are also encouraged to bring: a laptop (Chromebook, PC, MAC) with access to the Internet via web browser. **Software:** Participants will receive instructions for installing their Fab@School license and the Silhouette Portrait drivers.

PREC05 8:00 AM - 3:00 PM

MAKING WITH RASPBERRY PI Computer

Joelle Henry, High School CS Teacher, Salem HS

LEVEL: BEGINNER, GRADES: 6-12

MITI ESTIMATED COST: \$235 BYOD COST: \$120

Come explore three modules during this workshop: 1) Getting Started with Raspberry Pi: a. What is a Raspberry Pi and what makes it unique? b. Plugging in all components and turning on a Raspberry Pi. c. Navigating the desktop environment and opening programs. 2) Exploring Physical Computing: a. Programming the GPIO pins on the Raspberry Pi. b. Blinking an LED light using block-based coding in Scratch. c. Blinking an LED light using a text-based coding in Python. 3) Creating a Digital Making Project: a. Collaborate as a team to design and build their own project. b. Reflect on their learning and explore new areas of creation. **Equipment:** The registration fee for the MITI workshop format includes the following: Raspberry Pi Kit, Display, Mouse and Keyboard, and materials fee. The BYOD registration fee requires that you bring your own collection of devices as specified on the website. The materials fee is included in the BYOD workshop fee. **No software** required.

PREC06 8:00 AM - 3:00 PM

GOOGLE EDUCATOR LEVEL 1 CERTIFICATION BOOTCAMP

Allison Mollica, USA Director, AppsEvents

LEVEL: INTERMEDIATE, GRADES: ALL

MITI ESTIMATED COST: \$380 BYOD COST: \$110

The Google Educator Certifications showcase your knowledge and application of innovative tools and techniques to engage learners and promote a 21st century collaborative learning environment. The Google Certified Educator Level 1 Boot Camp prepares you to take Google's exam by providing pedagogically sound ideas for the use of G Suite in the classroom. Complimenting Google for Education Fundamentals training, you actively work through authentic learning scenarios and secure new ideas for using tools across the suite including Google Classroom, Forms, Docs, Sheets, Sites, Slides, YouTube and more! A voucher code is included so that you can take the exam for free as early as the next day. **Equipment:** The MITI workshop registration fee includes a rugged, touchscreen Chromebook, no additional equipment is required for this workshop. A voucher for the cost of taking the Certification Exam (\$10) is included in the workshop fee. The BYOD registration fee requires that you bring your own Chromebook or laptop and includes the Certification Exam voucher. **Software:** BYOD - latest version of the Google Chrome browser installed on your device. Prior to the workshop, if you do not already have a Google account, participants are requested to create a free account at: <https://accounts.google.com/signup>.

PREC07 8:00 AM - 3:00 PM

GOOGLE APPS & EXTENSIONS: YOUR ESSENTIAL TOOLKIT FOR DIVERSE LEARNERS

Diana Petschauer, Assistive Technology Professional, CEO, AT for Education

LEVEL: BEGINNER, GRADES: ALL

MITI ESTIMATED COST: \$380 BYOD COST: \$110

How do you support ALL learners across curriculum, including those with disabilities, using FREE and low-cost apps, extensions,

Add-Ons and web resources? Join us for this engaging, hands-on workshop focusing on ensuring access, inclusion, and success for all learners with specific focus on Google. These FREE and low-cost solutions support personalized learning and Universal Design for Learning in any subject. Come learn about tools that can support students in accessing curriculum, participating in assignments and activities, researching and studying, note-taking, literacy and math support, executive function skills support, transition, and more! This workshop is offered in both MITI (a device is included in the workshop fee) and BYOD (bring your own device per the requirements listed) formats. **Equipment:** The MITI workshop registration fee includes a rugged, touchscreen Chromebook, no additional equipment is required for this workshop. The BYOD registration fee requires that you bring your own Chromebook or laptop with Google Chrome loaded. **Software:** The list of free apps, software, and extensions will be downloaded with participants during the training along with free accessibility features. The presenter provides additional devices with paid apps/software for participants to explore and use during the workshop. Prior to the workshop, if you do not already have a Google account, participants are requested to create a free account at: <https://accounts.google.com/signup>.

PREC08 8:00 AM - 3:00 PM

MAXIMIZING LEARNING OUTCOMES WITH MAKERED: A PILOT PROGRAM FOR THE FUTURE!

Dmitri Yakovlev, Anna Orientale, Andy Larmand, Eduporium

LEVEL: BEGINNER, GRADES: PREK-8

MITI ESTIMATED COST: \$415, BYOD COST \$110

When MakerEd meets the curriculum in the classroom, student learning and engagement are evident and measurable. Introduce MakerEd technology into everyday teaching and explore best practices for integrating MakerEd activities to support core content areas.



MONDAY WORKSHOP DESCRIPTIONS

This workshop is the first step in joining a NH pilot program sponsored by Eduporium in association with NHSTE. Come discover how to incorporate tech into learning and adjust existing lesson plans when adding MakerEd tools. Then test the viability of innovative tech in a particular lesson while observing its compatibility with your individual teaching style. Receive a starter collection of appropriate EdTech tools to experience onsite and back in your classroom. Last year in partnership with the Highlander Institute, Eduporium organized a successful pilot in five Rhode Island schools and is ready to share their findings and help NH schools participate in a similar program. Every phase of the pilot is described, including guidance and assistance with tech selection, student involvement, finding and launching projects, reflection, presentation, and sharing. Attendees will be eligible to participate in the limited-time pilot program (November 2018 to April 2019), have a chance to discuss this opportunity and ask questions during the workshop, and then decide if this pilot is suitable for them. This workshop is offered in both MITI and BYOD formats. **Equipment:** Registration fee for the MITI workshop includes one of the following: **Elementary (Discover) Bundle:** Sphero Mini, Ozobot Bit Dual Pack, Makey Makey, KEVA Structures 200 Plank Set, Bloxels, and Makedo ToolKit. **Secondary (Advanced) Bundle:** Sphero SPRK+, Micro:bit GO, MonkMakes Electronics Starter Kit for Micro:Bit, MonkMakes RasPiRobot Rover Kit, and Eduporium Raspberry Pi 3 Kit. BYOD registration fee requires that you bring your own collection of devices as specified on the website. **No software** required.

PREC09 8:00 AM - 3:00 PM

BRING WONDER TO YOUR CLASSROOM

WITH DASH, DOT, & CUE

Jeff Mao, Sr. Strategic Outreach Manager, Wonder Workshop

LEVEL: BEGINNER, GRADES: K-5 AND 6-8

MITI ESTIMATED COST: DASH (K-5) \$235,

CUE (6-8) \$260, BYOD COST: \$110

Bring excitement and wonder to your classroom through robotics and coding with Dash, Dot, and Cue. Learn why and how computer

science skills are foundational to learning across all curricula for elementary and middle school learners. Understand how to implement a computer science program that supports learning and critical thinking skills across the curricula while having fun at the same time. Participants leave with the confidence that computer science for all learners is appropriate and doable along with the knowledge of how it can be done and where to find the necessary resources. **Equipment:** The registration fee for the MITI workshop format includes one of the following: - Dash Kit (Elementary K-5) OR - Cue Kit (Middle School 6-8) The BYOD registration fee requires that you bring your own collection of devices as specified on this website. **Dash Device Requirements:** iPad/iPhone/iPod Touch (iOS 8.1+), Android tablet/phone (v4.4.2+), or Kindle Fire (v5.1.2+) **Cue Device Requirements:** iPad/iPhone/iPod Touch (iOS 10.0+), Android tablet/phone (v5.0+), Kindle Fire (v5.1.2+), Chromebook (v66+), Windows 10 (v1709+). Please see <http://www.makewonder.com/> compatibility for specific device models. If your device is not listed, it likely will not work!

PREC10 8:00 AM - 3:00 PM

MAKE YOUR LEARNING COMMONS THE HUB OF YOUR SCHOOL - OFF SITE WORKSHOP

Elizabeth Currier, Technology Integration Teacher & Sarah Proulx, Hollis Primary School

LEVEL: BEGINNER AND INTERMEDIATE, GRADES: K-5

COST \$110

Are you working to transform your traditional library space into a vibrant Learning Commons? This off-site workshop supports this transition by providing practical ideas to help make your Learning Commons the student-centered, engaging space that is the heart of your school. Here at the Hollis Primary School in Hollis, NH we have been working to implement this change over the past two years. As the Library Media Specialist and the Technology Integrator we work side by side collaboratively building our Learning Commons. Using our experiences

throughout our transition, we can help you to articulate your vision, provide support, and create a plan to build your Learning Commons. Lessons are shared for whole school and small group projects, RTI groups, Breakout Box and STEM challenges, and personalized learning opportunities. Ideas for involving the school community will also be covered, including professional development offerings and student job sign-ups. Along with allocating time to observe our Learning Commons in action, attendees have the opportunity to explore our resources and talk to both students and staff. Throughout the day participants ask clarifying questions and share their experiences to allow everyone to benefit from input and ideas from diverse schools. Bring photos of your current Library/Learning Commons. Light breakfast and coffee provided. Bring your own lunch, order out, or go to a local restaurant. **Equipment:** Any computing device with access to the Internet; tablet sized screen or larger recommended. **Software:** Any Internet browser.

PREC11 3:30 - 5:00 PM

LEADERSHIP FORUM: TRANSFORM LEARNING ~ ISTE STANDARDS FOR FUTURE-FOCUSED LEADERS

Joseph South, ISTE Chief Learning Officer

LEVEL: BEGINNER, GRADES: ALL

COST \$35

A complex and rapidly-changing digital age requires new vision and skills in ed leadership. The new ISTE Standards for Leaders provides a framework for learning, teaching, and leading that supports the capabilities of today's dynamic, future-focused leaders. Join SpotLight Speaker, Joseph South, to better understand how the Standards can help you focus your efforts on the most impactful levers of change by providing a roadmap for leading equitable, transformational learning with technology in your organization. The forum is for dialog, reflection, networking, and sharing best practice. Light refreshments served. **No equipment or Software.**

PREC12 6:00 - 9:00 PM

LEADERSHIP FORUM: DEVELOPING DIGITAL RESPONSIBILITY IN OUR CHILDREN

Carol Todd, Educator & Advocate, School District #43, Coquitlam, British Columbia

LEVEL: ADMINS

COST \$35

Join CMTC18 SpotLight speaker, parent, and educator, Carol Todd, for an engaging dialog around what digital responsibility looks like in our youth. Carol is the founder of Amanda Todd Legacy - <http://www.amandatoddlegacy.org> - dedicated to Carol's daughter Amanda who took her own life at age fifteen the victim of cyberbullying and sextortion. This leadership forum is a time for school and district administrators to listen, learn, engage, share, and question. This critically important topic of digital responsibility brings increased awareness and conversations within schools and communities about the combination of bullying and technology use. The goal is to encourage leaders to shift their thinking about bullying type behaviours to those of KINDNESS and RESPECT. Light refreshments are served. **No Equipment or Software required.**

PREC13 6:00 - 9:00 PM

LEADERSHIP FORUM: FUNDING TO CLOSE YOUR STUDENTS' DIGITAL DIVIDE AT HOME

Robert McLaughlin Ph.D, Founder & Chair, National Collaborative for Digital Equity

LEVEL: ADMINS/BUSINESS OFFICE

COST: \$35

Join Dr. Robert McLaughlin, founder and leader of the National Collaborative for Digital Equity (NCDE), based in Weare, NH and discover how to leverage your district's banking relationship to close the digital divide for students. The federal Community Reinvestment Act requires banks to make economic opportunity investments in "low and moderate income" (LMI) areas. The nonprofit NH-based National Collaborative for Digital Equity is partnering with the NH Bankers Association,

NH School Boards Association, state agencies and associations to open CRA grant funding to support closing the digital divide for low-income learners of all ages in NH's LMI communities. School system leaders from these communities are very welcome to join us for this very interactive session, to leverage your authority over where your district does its banking, to close the "homework gap" for your students and their families. CRA credit can be given to banks not only for home broadband and computers, but also for creating coding programs, expanding college and career readiness efforts, and STEM pipeline development, among other purposes. **No Equipment or Software required.**

PREC14 6:00 PM - 9:00 PM

LEADERSHIP FORUM: ASKING THE HARD QUESTIONS ABOUT EDUCATIONAL CHANGE

Ginger Lewman, Tuesday Keynote

LEVEL: ADMINS

COST \$35

Join Tuesday keynote speaker Ginger Lewman in this conversation about our current educational expectations and their purpose. Discuss which expectations are there because of tradition, which are there because of need, and which are there because of the law. Share thoughts, concerns, successful strategies for shifting, and challenges yet to be handled. This forum is for dialog, reflection, networking, and sharing best practice. Light refreshments are served. **No Equipment or Software required.**

PREC15 6:00 - 9:00 PM

CREATE WITH IPAD & APPLE APPS

Matt Brooks, Apple

LEVEL: BEGINNER TO ADVANCED, GRADES: ALL

MITI ESTIMATED COST: \$400

• Pad opens up new opportunities for learning. Join us for a hands-on journey with the new Everyone Can Create curriculum with powerful creation apps on iPad. Unlock your iPad, snap a photo, launch Clips, sketch note, build your video, and bring it all

together with Keynote then share what you've made with the world. Each attendee is provided with free curriculum guides and skills to create deeper learning activities centered on creation in the classroom. Remember everyone is an artist! This workshop is offered in the MITI (a device is included in the workshop fee) format ONLY. **Equipment:** The MITI workshop registration fee includes an Apple iPad WIFI 32 GB and a Logitech Crayon, no additional equipment is required for this workshop. **No software required.**

PREC16 6:00 PM - 9:00 PM

CREATING YOUR OWN 'GOOGLE EXPEDITION' WITH TOUR CREATOR

Craig Shell, Technology Integration Teacher, Bedford HS

MITI ESTIMATED COST: \$245 BYOD COST: \$50

Learn how to create your own Google Expedition with Google's new tool: Tour Creator. Tour Creator allows viewers to be immersed in an environment with either a mobile device or via a chromebook/laptop with the Chrome browser. Participants walk through the entire process from taking their own 360 photos with a Ricoh Theta camera to importing photos into Google's Tour Creator to producing a final product. Now is the time to showcase and deliver learning through a different format. Time is also provided for participants to share ideas on how this tool can be used in the educational setting both for teachers and students. Let's have fun together! This workshop is offered in both MITI (a device is included in the workshop fee) and BYOD (bring your own device per the requirements listed) formats. **Equipment:** The MITI workshop registration fee includes a Ricoh Theta S 360 Camera no additional equipment is required for this workshop. The BYOD registration fee requires that you bring your own collection of devices as specified on the website. **Software:** Any mobile device with the following apps loaded: - Ricoh Theta app - Google Street View - Google Expeditions All participants are requested to bring a chromebook/laptop with the most recent Chrome browser.



MONDAY WORKSHOP DESCRIPTIONS

PREC17 6:00 - 9:00 PM

"SCRATCHING THE PROGRAMING ITCH" WITH THE NEW SCRATCH 3.0

Chantal Duval, Technology Integration Specialist,
Chichester Central School & Deb Boisvert,
EdTech Consultant & Google Certified Educator

LEVEL: BEGINNER, GRADES: ALL

ESTIMATED COST: \$330, BYOD COST: \$50

Programming with students is becoming increasingly more common in classes around the world. In programming students learn about problems solving, logic, sequencing and more. Come review the basics of programing, explore and learn the new Scratch 3.0 programing tool as well as the app based Scratch Jr. Attendees will have time to begin and program their own projects their own tools. The presenter also discusses the Scratch curriculum resources and how you can use these resources with various robots and STEM toys with Scratch to "free code". This workshop is offered in both MITI (a device is included in the workshop fee) and BYOD (bring your own device per the requirements listed) formats. **Equipment:** The MITI workshop registration fee includes a rugged, touchscreen Chromebook, no additional equipment is required for this workshop. The BYOD registration fee requires that you bring your own Chromebook, laptop, or tablet with a web browser installed. BYOD participants will be able to fully participate in this workshop with tablets or laptops but a 2-in-1 device provides that greatest flexibility. **No additional Software** required: Scratch 3.0 is written in HTML5/ Javascript - unlike Adobe Flash Javascript works without requiring any plugins. No additional software is needed for this workshop.

**MITI Registration Deadline
November 1st, 2018**

PREC18 6:00 - 9:00 PM

STEAMMAKER: SCIENCE, TINKERING, ENGINEERING, AESTHETICS, & MATHEMATICS

Ginger Lewman, Tuesday Keynote

LEVEL: BEGINNER, GRADES: K-12

MITI ESTIMATED COST: \$350, BYOD COST: \$60

In today's modern learning environments, it's less about sit-and-get and more about learning by doing. This exciting session takes a look at starting (and growing) makerspaces in your own school community. Dig in with a variety of tools (that you get to take home) to take even the least-techie teachers and students deeper into the maker movement. Come take a taste and leave with a clear list of next-steps for your school and classroom! This workshop is offered in both MITI (a device is included in the workshop fee) and BYOD formats. The BYOD registration fee requires that you bring your own collection of devices as specified on the website. **Equipment:** The registration fee for the MITI workshop format includes the following: 3Doodler Start Mega Box Kit, Chibitronics Chibi Lights LED Circuit Stickers, and Hummingbird Duo Base Kit. The BYOD registration fee requires that you bring your own collection of devices as specified on the website. **No software** required.

PREC19 6:00 - 9:00 PM

CHROMEBOOKS & CHROME EXTENSIONS TO SUPPORT ALL LEARNERS

Jennifer Lowton, Director of Technology,
Farmington, SAU 61

LEVEL: BEGINNER, GRADES: ALL, TECH DEPARTMENT

MITI ESTIMATED COST: \$380, BYOD COST \$50

Chromebooks have become a preferred and successful digital tool choice in many learning settings. Educators explore the setup and basics of Chromebook use, tips and tricks as well as basic Google apps integration. Learn how to use Chrome Extensions and Apps to support struggling learners and what Chromebook features do this as

well. Participants also experience and work with other great Chrome apps and extensions and take away some class lesson ideas. This workshop is offered in both MITI (a device is included in the workshop fee) and BYOD (bring your own device per the requirements listed) formats. **Equipment:** The MITI workshop registration fee includes a rugged, touchscreen Chromebook, no additional equipment is required for this workshop. The BYOD registration fee requires that you bring your own Chromebook. **Software:** Prior to the workshop, if you do not already have a Google account, participants are requested to create a free account at: <https://accounts.google.com/signup>.

PREC20 6:00 - 9:00 PM

AT-UDL APPS: SUPPORT DIVERSE LEARNERS ON ALL DEVICES ACROSS THE CURRICULUM

Diana Petschauer, Assistive Technology Professional,
CEO, AT for Education

LEVEL: BEGINNER, GRADES: ALL

COST \$50

How do you support ALL learners across curriculum, including those with disabilities, using free and low-cost apps, extensions, web resources and built-in accessibility features? Join us for this engaging, hands-on workshop focusing on ensuring access, inclusion, and success for all learners on any device (Chromebook, iPad, Android) with specific focus on Google and Apple (iOS). These free and low-cost solutions support Personalized Learning and Universal Design for Learning in any subject. Come learn about tools that can support students in accessing curriculum, participating in assignments and activities, researching and studying, note taking, literacy and math support, executive function skills support, transition and more! Technology makes UDL possible! **Equipment:** Any device with access to the Internet via web browser; tablet sized screen or larger recommended. An iPad or iPhone is also recommended if available. Additional

devices will be provided by the presenter with paid apps/ software for participants to explore and use during the workshop. **Software:** Free apps, software and extensions will be downloaded with participants during the training along with free accessibility features.

PREC21 6:00 - 9:00 PM

BLENDING LEARNING FOR ACTIVE LEARNERS

Matthew Joseph, Director of Innovation & Digital Learning, Milford Public Schools

LEVEL: INTERMEDIATE, GRADES: ALL

COST \$50

One key to academic achievement is active learning. Personalized, collaborative, and connected learning experiences enhance student engagement, which in turn drives student success. By integrating blended and digital learning into the classroom, educators can take learning experiences to the next level and improve student performance. Blended learning is an instructional methodology and learning approach that combines face-to-face classroom methods with digital created activities to deliver instruction. A classroom that nurtures creativity often results in students taking different approaches to interacting with the same curriculum. Computers and Apps do not teach, TEACHERS teach. Digital learning is an instructional strategy that enhances and engages learners. This session focuses on blended learning tools enabling educators to enhance and increase student engagement and provides the "WHY" of digital learning, planning recommendation, instructional strategies, and reflection. In addition, participants have work time and collaboration to share ideas to leave with a plan and inspiration to create an active learning environment. **Equipment:** Any computing device with access to the Internet via web browser; tablet sized screen or larger recommended. **No software** required.

PREC22 6:00 - 9:00 PM

LEARN. CODE. FLY. MICRODRONES IN EDUCATION!

Sheila Adams, Middle School Science Teacher, Rye Jr. High School & Andrea O'Neil, SAU 15 - Auburn

LEVEL: BEGINNER, GRADES: K-12

MITI ESTIMATED COST: \$220, BYOD COST: \$65

Take coding to a new level with a microdrone, the perfect tool for developing STEM skills! Learn how you can control a microdrone indoors with your students using a block-style programming code. Participants learn to code and fly their unmanned aircraft. Safety and FAA regulations are discussed in order to learn how to fly responsibly. This MITI includes a microdrone and controller, the ISTE book *Drones in Education Let Your Student's Imaginations Soar*, and the workshop fee. This book is a great resource for learning the rationale for using drones in education, and includes rules pertaining to teachers and the use of drones in education, as well as classroom implementation strategies and sample lesson plans. **Equipment:** The MITI workshop registration fee includes a micro drone, controller, and the book *Drones in Education Let Your Student's Imaginations Soar*. The BYOD registration fee requires that you bring your own micro drone matching the specifications on the website and includes the book *Drones in Education Let Your Student's Imaginations Soar*. **No software** required.

PREC23 6:30 - 8:00 PM

FREE PARENT FORUM: DEVELOPING DIGITAL RESPONSIBILITY IN OUR CHILDREN

Carol Todd, Educator & Advocate, School District #43, Coquitlam, British Columbia

LEVEL: BEGINNER, GRADES: ALL

COST: FREE

Join parent and educator, Carol Todd, in Pemigewasset for an intimate and engaging discussion around what digital responsibility looks like in our youth. Carol is the founder of Amanda Todd Legacy - <http://www.amandatoddlegacy.org> - dedicated to Carol's daughter Amanda who took her own life at age fifteen the victim of cyberbullying and sextortion. This parent forum is an evening for students and parents to listen, learn, and engage. This critically important topic of digital responsibility brings increased awareness and conversations within



families and communities about the combination of bullying and technology use. The goal is to encourage others to shift their thinking about bullying type behaviors to those of KINDNESS and RESPECT. Light refreshments are served and this session is open to the public for FREE. Please RSVP via the link on the conference website so we can plan refreshments for those attending.

BYOD WORKSHOPS

This year CMTC offers a variety of engaging hands-on “Bring Your Own Device” workshops on Tuesday, Wednesday, and Thursday. BYOD workshops are included in the cost of general conference registration.






There is NO additional fee for these workshops. Workshops offered during the day require conference registration ONLY on the day of the workshop.

EVENING BYOD WORKSHOPS REQUIRE:

- 1) PRE-REGISTRATION and
- 2) Conference Registration for at least one day of the conference: Tuesday, Wednesday, or Thursday

All BYOD workshops require that you bring your own technology per the requirements noted in the workshop details. The requirements address both hardware and software criteria for participation. If you have any questions, please feel free to contact the NHSAA office at 603-225-3230.




TUESDAY, NOVEMBER 27, 2018

9:30 am - 11:30 am 2 hour	 Empower Learners with UDL: Build a Personal Learning Backpack for Agency <i>Kathleen McClaskey, Diana Petschauer</i>	Google Expeditions: From Tourist to Tour Guide <i>Eric Lawson, Tom Rup</i> REPEATED
12:00 pm - 1:00 pm 1 hour	 Augment Learning with Augmented Reality <i>Debra Rodd</i>	 Increasing Engagement in STEM ~ Teaching Coding through Gamification <i>Kathleen Dasho, Graham Celine</i>
1:30 pm - 3:00 pm 1.5 hour	 Digital Breakouts ~ A Virtual Escape Room <i>Denise Wood, Josh Smith</i>	Engineering & NextGen Science Standards <i>Vasiliki Partinoudi</i>
PLEASE NOTE: Pre-registration is REQUIRED for EVENING BYOD Workshops ONLY		
6:30 pm - 8:30 pm 2 hour	 Programming with Students: Making It Happen in the Classroom <i>Chantal Duval, Deb Boisvert</i>	Google Expeditions: From Tourist to Tour Guide <i>Eric Lawson, Tom Rup</i> REPEATED

Seats in daytime BYOD workshops are first come, first served so prompt arrival is encouraged, as seats are limited!

BYOD Bring your own device



WEDNESDAY, NOVEMBER 28, 2018

9:30 am - 11:30 am 2 hour	 Setting up Digital Portfolios for Students Using G Suite <i>Christina Swenson</i> REPEATED	How to Fast Draft Your Blog, Article, or Book! <i>Susan Fitzell</i>
12:00 pm - 1:00 pm 1 hour	The Power of Pivot Tables <i>Todd MacDonald, Joel Handler</i>	 Digital Teaching Tools to Empower Student Choice <i>Christina DeBello, Tarsha Doyle</i>
1:30 pm - 3:00 pm 1.5 hour	 Increasing Engagement in STEM ~ Teaching Coding through Gamification <i>Kathleen Dasho, Graham Celine</i>	We Be Jammin' - Moving from Interactive Whiteboards to Google's Jamboard <i>Eric Lawson, Tom Rup</i> REPEATED

PLEASE NOTE: Pre-registration is REQUIRED for EVENING BYOD Workshops ONLY

6:30 pm - 8:30 pm 2 hour	 Setting up Digital Portfolios for Students Using G Suite <i>Christina Swenson</i> REPEATED	We Be Jammin' - Moving from Interactive Whiteboards to Google's Jamboard <i>Eric Lawson, Tom Rup</i> REPEATED
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THURSDAY, NOVEMBER 29, 2018

8:00 am - 9:30 am 1.5 hours	 Constructing Knowledge Using Google Tools <i>Laurie Prewandowski</i>	Programming & the Digital Learning Standards: Let's Code 5-12 <i>Daniel Downs</i>
10:30 am - 12:00 pm 1.5 hours	 Communicate Data via Google Sheets <i>Christina Swenson</i>	 Let's Chase that Goose! <i>Craig Sheil, Heidi Colburn</i>
1:30 pm - 3:00 pm 1.5 hours	 Video Game Design <i>Nicole Anderson, Tracy Bemis</i>	 Crack Your Chromebook <i>Jenifer Hollander</i>



**McAuliffe
Presenters
have a star**

LEGEND

**Bring
Your
Own
Device**
means you
provide the
technology,
we provide
the learning



SPECIAL EVENTS

CMTC is excited to announce that we continue to enhance your conference experience in the Partner Pavilion with our solution providers. The Partner Pavilion is going to be a busy place with something **NEW** every day!

- ▶ We are excited to announce the return of the **COLLABORATORY MAKERSPACE** each day (T-W-Th) in the Partner Pavilion brought to you by our conference partner the NH School Library Media Association (NHSLMA). The collaboratory makerspace is dedicated to highlighting “making” as learning. “Making” is an engaging and practical hands-on approach to learning that is gaining educators’ attention around the world. In addition to the collaboratory makerspace demonstrations, there will be a number of exciting maker displays to inform attendees of the potential of “making” learning in the classroom. From quirky robotic hands to a magnetic boogie box, the collaboratory makerspace showcases the role that making things can play in learning environments. Join in “making” some fun and excitement happen with both collaboratory activities and demonstrations throughout each day!

- ▶ The **TEACHER SHOWCASE** and **STUDENT STE(A)M SHOWCASE** are scheduled for Thursday ~ teachers in the morning from 9:30 to 11:00 AM and students in the afternoon from 1:30 to 3:00 PM.
- ▶ Hands-on activities are once again planned in the **EDTECH PLAYGROUNDS** interactive spaces located in the Partner Pavilion both morning (10:00am to 12:00pm) and the afternoon (1:00 to 3:00pm) **every** day (T-W-Th). Stay and play as long as you want. Join both educators and exhibitors at these interactive playgrounds covering a wide variety of topics. Explore and play a little or a lot; there is plenty to engage and excite!
- ▶ **NEW SOLUTION PARTNERS every** day! New for 2018, we are offering solution partners a **wider** variety of engagement options which means attendees see new solution partners each day of the conference in the Partner Pavilion. Explore exciting onsite and online student activities for expanding your classroom walls with authentic learning experiences! Discuss with industry leaders how you can reimagine and reinvent your library space physically, digitally, and pedagogically!

**“I touch
the future,
I teach!”**
Christa

Teachers in the 21st century must teach students to think, explore, learn, communicate, collaborate, and create using a diverse array of digital resources. In Christa’s memory and vision, the Christa McAuliffe Transforming, Teaching, and Technology Conference has provided a platform for educators to share their experiences and expertise since 1986! The venue has changed, the technology has evolved, but the relationships formed at CMTC continue to grow and expand each and every year.

CMTC IS EXCITED TO OFFER FOUR LEADERSHIP FORUMS ON MONDAY TARGETING BOTH DISTRICT AND SCHOOL-BASED LEADERSHIP ROLES INCLUDING superintendents, assistant superintendents, instructional and technology leadership, principals, assistant principals, tech integrators, business managers, and all educators with a district or school perspective. This year the Leadership Forums are presented by our Tuesday Keynote speaker Ginger Lewman and our SpotLight speakers, Joseph South and Carol Todd, along with Robert MdLaughlin.

TRANSFORM LEARNING ~ ISTE STANDARDS FOR FUTURE-FOCUSED LEADERS (PREC11)

Join SpotLight Speaker and ISTE Chief Learning Officer, **JOSEPH SOUTH** for a perspective on the complex and rapidly-changing digital age that requires new vision and skills in education leadership. The new ISTE Standards for Leaders provide a framework for learning, teaching, and leading that support the capabilities of today's dynamic, future-focused leaders. Learn how the Standards can help you focus your efforts on the most impactful levers of change by providing a roadmap for leading equitable, transformational learning with technology in your organization. This forum is for dialog, reflection, networking, and sharing best practice.

DEVELOPING DIGITAL RESPONSIBILITY IN OUR CHILDREN (PREC12) Join our SpotLight Speaker **CAROL TODD** for an engaging dialog around what digital responsibility looks like in our youth. Carol is the founder of Amanda Todd Legacy - <http://www.amandatoddlegacy.org>

- dedicated to Carol's daughter Amanda who took her own life at age fifteen, the victim of cyberbullying and sextortion. This leadership forum is a time for school and district administrators to listen, learn, engage, share, and question. This critically important topic of digital responsibility brings increased awareness and conversations within schools and communities about the combination of bullying and technology use. The goal is to encourage leaders to shift their thinking about bullying type behaviours to those of KINDNESS and RESPECT.

FUNDING TO CLOSE YOUR STUDENTS' DIGITAL DIVIDE AT HOME (PREC13)

Join **DR. ROBERT MCLAUGHLIN** Founder & Chair, of the National Collaborative for Digital Equity (NCDE) to discover how to leverage your district's banking relationship to close the digital divide for your students. The federal Community Reinvestment Act (CRA) requires banks to make economic opportunity investments in "low and moderate

income" (LMI) areas. The nonprofit NH-based NCDE is partnering with the NH Bankers Association, NH School Boards Association, and several state agencies and associations to open up CRA grant funding to support closing the digital divide at home for low-income learners of all ages in NH's LMI communities. Please check the map at this link for eligibility: <https://bit.ly/2ALHeYH>. School system leaders from these communities are invited to join this interactive session to leverage your authority over where your district does its banking, to close the "homework gap" for your students and their families. CRA credit can be given to banks not only for home broadband and computers, but also for creating coding programs, expanding college and career readiness efforts, and STEM pipeline development, among other purposes.

ASKING THE HARD QUESTIONS ABOUT EDUCATIONAL CHANGE (PREC14)

Join Tuesday Keynote Speaker **GINGER LEWMAN** in this conversation about the current educational expectations and their purpose. Discuss which expectations are there because of tradition, which are there because of need, and which are there because of the law. Share thoughts, concerns, successful strategies for shifting, and challenges yet to be handled. This forum is for dialog, reflection, networking, and sharing best practice.

These 90-minute sessions run from 3:30-5:00pm and light refreshments are served.

TUESDAY CONCURRENT SESSIONS 50 MINUTES




Session Title & Presenter(s)	Content Areas	Grade Level
CURRICULUM, INSTRUCTION, & ASSESSMENT		
Being Prepared for the Next Technology Wave as a Skeptic <i>Dan Black, Assistant Superintendent, Londonderry SD</i>	All	All
Social Emotional Learning: Where to Find It, How to Fund It <i>Rita Oates, President, Oates Associates & Wendy Weiler, Weiler Associates LLC</i>	ELA, SS, ICT, LIB, Social Emotional Learning	All
The Joy of Add-Ons <i>Christina Swenson, District Technology Integrator, SAU 62</i>	All	All
#GoogleAddict 3.0 <i>Craig Sheil, Technology Integration Teacher, Bedford HS & Kerri Lunn, Bedford SD</i>	ICT	All
Nineteen for '19: Tools, Trends, & Techniques to Inspire & Motivate <i>Maureen Yoder, Professor, Lesley University</i>	ELA, MA, SC, SS, LIB	All
Meet Them Where They Are: Using Technology to Help Struggling Learners <i>Kara Wilkins, District Technology Integration Specialist, Lowell Public Schools</i>	ELA, SC, SS, ELL & Special Services	K-12
Unlocking 17th Century Ideas with 21st Century Skills <i>Kristen Sullivan, English Teacher, Pelham SD & Jessica Parent, Pelham HS</i>	ELA, SS, WL, HUM	6-12
Text to Tech <i>Helen Kelley, Digital Learning Specialist, North Reading Public Schools & Dianne Maguire, North Reading</i>	EC, ELA, MA, SC, SS, LIB	K-5

Session Title & Presenter(s)	Content Areas	Grade Level
The Good, The Bad and The Ugly <i>Christine Donoghue, Technology Teacher, Billerica Public Schools</i>	CS	K-8
PERSONALIZED STUDENT/PROFESSIONAL LEARNING		
Creating Schools That Kindle the Inner Fires of Learning <i>Ginger Lewman, Tuesday Keynote</i>	All	All
Big 5 Must-Have Tools for Learning by Doing <i>Ginger Lewman, Tuesday Keynote</i>	All	All
Personalized Professional Learning Anytime! Anywhere! <i>Holly Doe, Enrichment/Technology, SAU 28</i>	Professional Learning for Adults	All
Bring ISTE Standards to Life: New Professional Learning Opportunities <i>Joseph South, ISTE Chief Learning Officer</i>	ICT, Professional Learning	All
A Professional Development & Technology Integration Framework That Works <i>Todd MacDonald, Tech Integration Coordinator, & Joel Handler, Hillsborough Township Public Schools (NJ)</i>	Pedagogy	All
Extreme UDL Makeover <i>Julie Spang, Digital Learning Coach, Groton Dunstable Regional SD & Thea Durling, Groton Dunstable Regional MS</i>	ENG	PreK-8
Meeting Students Where THEY Are in Mathematics <i>Micah Depper, Director of Teaching & Learning, Harpswell Coastal Academy & Suzanne Rickard</i>	MA	4-12

CONCURRENT SESSIONS ARE 50 MINUTES

50 MINUTE CONCURRENT SESSIONS TUESDAY

Session Title & Presenter(s)	Content Areas	Grade Level
 Student Portfolios using Google Sites <i>Edith Fogarty, Technology Integration Facilitator, Bradford Elementary School</i>	ELA, MA, SC, SS, WL, ICT, LIB, ENG, HUM, PE	K-12
Radically STEAM <i>Marcia McCaffrey, Arts Consultant, NH DoE</i>	SC, ICT, HUM	K-12
COLLABORATIVE LEADERSHIP		
Flipped (Staff) Meetings - Getting the most out of meetings! <i>Paula Izbecki, Hollis Primary School Principal, Hollis SD</i>	Empowering Staff, Leadership	All
Skills for Innovative Leadership <i>Matthew Joseph, Director of Innovation & Digital Learning, Milford Public Schools</i>	Leadership	All
Digital Citizenship ~ A Successful District Approach <i>Tom Plati, Director of Instructional Technology & Chris Henry, Marlborough (MA) Public Schools</i>	ELA, ICT, LIB, Digital Citizenship	All
COMMUNITY PARTNERSHIPS		
 Online Safety, Cyberbullying, Kindness, & Respect <i>Carol Todd, Educator & Advocate</i>	ICT, Digital Citizenship	All
BUDGET & RESOURCES		
 Show Me The \$\$\$! Writing & Winning Successful Grants <i>Ethel Gaides, Assistant Superintendent, SAU 48 & Kiley Kapp, Campton Elementary School</i>	All, Grant Writing	All, Anyone interested in grants

Session Title & Presenter(s)	Content Areas	Grade Level
TECHNOLOGY & ROBUST INFRASTRUCTURE		
 Enhance your 1:1 Environment by Harnessing the Powers of Google Console <i>Chantal Duval, Technology Integration Specialist & Alex Libby, Chichester Central School</i>	ICT, ENG, CS	All
 Google Sites for Beginners <i>Christina Swenson, District Technology Integrator, SAU 62</i>	ICT	All, Webmaster
Mitigating Student Caused Damage to Devices <i>Eric Ogden, Trinity3 Technology</i>	Technology, 1-1, Edtech	All,
USE OF SPACE & TIME		
 Google the WHOLE School: Unlock the Unified Arts & the Rest of the School <i>Jonathan Reed, Technology Integrator, Sunapee SD, & Kirk Romein, Sunapee MS/HS</i>	All, CoCurricular, Sports, Clubs	All
DATA & PRIVACY		
Cyber Security & You: Understanding HB1612 & Your Role as an Educator <i>Raymond Benoit, President, RTM Communications, Inc.</i>	Cyber Security Literacy	All, Administrative, Technology staff
Are Your Network & Endpoints Really Secure from All Threats? <i>Mark Turner, Sophos, & Chris Chaves, Sophos</i>	Infrastructure	Technology staff
So What is a Blockchain? <i>Bill McGonigle, Entrepreneur, BFC Computing, LLC</i>	ICT, ENG, CS	All








 **McAuliffe Presenters**
have a star









Keynote Speakers
have a microphone

 **Spotlight Speakers**
have a spotlight

WEDNESDAY CONCURRENT SESSIONS 50 MINUTES








Session Title & Presenter(s)	Content Areas	Grade Level
CURRICULUM, INSTRUCTION, & ASSESSMENT		
 Digital Citizenship in Every Classroom <i>Tom Murray, Wednesday Keynote</i>	All, Digital Literacy	K-12
 Tech Tools for Student Engagement & Teacher Effectiveness <i>Tom Murray, Wednesday Keynote</i>	ELA, MA, SC, SS, WL, ICT, LIB, HUM, PE	All
 CodeSpark the Foos: Programming with PreK through Grade 5 <i>Chantal Duval, Technology Integration Specialist, Chichester Central School</i>	All	Pre-K-5
Competency Grading Best Practices <i>Patrick Grace, Product Manager, Computer Resources & Brenda McGee, SAU 73</i>	All	All
 QR Codes, Stations, Centers, & More! <i>Susan Tuttle, Visual Art/Technology Teacher, Claremont SD</i>	HUM, PE, General Education	K-12
Social Media Credit Score: The Hidden Risks & Benefits for Students <i>Eric Butash, Director of Operations, Highlander Institute</i>	All	6-12
 QRIt! The Trail Project <i>Mary Cantlin, Technology Integrator & Jen Frederick, Plainfield School</i>	All	6-8
 Digital APUSH: Practicing Digital History in the HS Classroom <i>Ray Palin, Librarian, Sunapee SD</i>	SS, ICT	9-12
 Closing the Homework Gap: Are Your Students Connected? <i>Deb Boisvert, EdTech Consultant & Google Certified Educator & Brenda McGee, Gilford SD</i>	All	All

Session Title & Presenter(s)	Content Areas	Grade Level
 Virtual Worlds in Education: Benefits, Challenges, & Opportunities <i>Palo Peirce, Director & Anna Orientale, EdTech Specialist, Eduporium</i>	SC, ICT, ENG, CS	PreK-8
Learned vs Earned: Best Practices Implementing Competency-Based Grading <i>Anna Logan, Director of Sales Operations, Alma Technologies</i>	All	All
 Show Students the World with Tour Builder <i>Edith Fogarty, Technology Integration Facilitator, Bradford Elementary School</i>	ELA, MA, SC, SS, WL, ICT, LIB	K-12
PERSONALIZED STUDENT/PROFESSIONAL LEARNING		
 Create Your Own Online Bookchat <i>Craig Shell, Tech Integration Teacher, Bedford HS & Jessica Gilcreast, Bedford SD</i>	ICT, LIB, Professional Learning	All
 A Learner with Agency is a Learner Who is Future Ready <i>Kathleen McClaskey, Founder, Make Learning Personal</i>	All, Personalized Learning	All
Strategies for Developing Self-Directed Learners <i>Peter Siner, Personalized Learning Coach & Tricia Breen, New England Basecamp</i>	ELA, MA, SC, SS, WL	6-12
 Invention Education & Youth Innovation: School Invention Conventions <i>Nicole Bellabona, Director, Young Inventors' Program of NNE, Academy of Applied Science/DePaul Univ & Laura Vittorioso, Barrington Elementary School</i>	ENG	All
 Google Apps & the Performing Ensembles <i>Helfried Zrzavy, Technology Integration Specialist & James Wickham, ConVal Regional HS</i>	Music	All






CONCURRENT SESSIONS ARE 50 MINUTES

50 MINUTE CONCURRENT SESSIONS WEDNESDAY






Session Title & Presenter(s)	Content Areas	Grade Level
 Sketchnoting and Doodling: Full STEAM AHEAD <i>Karen Desjardon, Media Specialist, Londonderry SD</i>	ELA, MA, SC, SS, WL, LIB, HUM, PE	All
COLLABORATIVE LEADERSHIP		
 Laconia's Technology in the Classroom Packs a Super Punch! <i>Angel Burke, Academic Coordinator - Teaching & Learning, Shannon Siegler, MS, Lindsay Middleton, MS, & Lisa Hinds, HS, Laconia SD</i>	ELA, MA, SC, SS, ICT	K-12
Instructional Technology Coaching <i>Matthew Joseph, Director of Innovation and Digital Learning, Milford Public Schools & Erin Fisher, East Bridgewater Public Schools</i>	EC, ELA, MA, SC, SS, WL, ICT	All
Keeping Learning First: Leadership for Education Technology <i>Mike Muir, Proficiency-based Education Specialist, GEAR UP Maine</i>	Education Leadership	All
All Systems Go: Empowering Co-Workers to Create Meaningful Learning <i>Karen Desjardon & Neil Leavis, Londonderry SD</i>	ELA, MA, SC, SS, WL, ICT, LIB, HUM, PE	6-12
COMMUNITY PARTNERSHIPS		
 Online Safety, Cyberbullying, Kindness, & Respect <i>Carol Todd, Educator & Advocate</i>	ICT, Digital Citizenship	All
 Citizen Science: Authentic Data in the Classroom <i>Kimberly Scantlebury, Science Teacher, The Founders Academy</i>	MA, SC, ENG	6-12
Flatten Your Classroom: Knock Down the Walls of Your Classroom and Let your <i>Kara Wilkins, District Technology Integration Specialist, Lowell Public Schools</i>	ELA, SC, SS, WL, HUM	All

Session Title & Presenter(s)	Content Areas	Grade Level
BUDGET & RESOURCES		
 Show Me The Money! Feedback on Funding Ideas <i>Rita Oates, President, Oates Associates & Wendy Weiler, Weiler Associates LLC</i>	All, Social Emotional Learning	All
 Crowdfunding Your Classroom Needs Using Donors Choose <i>Joanna Marcotte, Computer Science Teacher</i>	All	All
Resources to Close the Homework Gap for ALL Your Students <i>Robert McLaughlin Ph.D., Founder & Chair, NCDE</i>	All, Funding	Leadership
TECHNOLOGY & ROBUST INFRASTRUCTURE		
From Account Creation to Resource Access & Allocation in ClassLink <i>Bob Chappell, ClassLink</i>	Resources Management	All
 A Rubric for District Robotics Success: A Buyer's Guide & Hands On Guide <i>Kathleen Dasho & Daniel Downs, North Reading SD</i>	ICT, ENG, CS	All
USE OF SPACE & TIME		
 Makerspaces Unleashed <i>Cathy Collins, Library Media Specialist, Sharon Public Schools</i>	ICT, LIB, STEAM	All
 Space Innovations: Creating Powerful Learning Spaces <i>Pam Harland, Faculty, PSU</i>	ELA, SS, ICT, LIB	All
DATA & PRIVACY		
 Building Your Data & Privacy Toolkit <i>Holly Doe, Enrichment/Technology, SAU 28 & Lee Despres, Merrimack Valley SD</i>	Data Privacy	Adult learners
 Educating Educators About Blockchain <i>Tonya Evans, Professor, UNH School of Law</i>	MA, SC, ICT, ENG, CS	All

THURSDAY CONCURRENT SESSIONS 50 MINUTES

Session Title & Presenter(s)	Content Areas	Grade Level
CURRICULUM, INSTRUCTION, & ASSESSMENT		
 Amplifying Student Voice through Social Media <i>Jennie Magiera, Thursday Keynote</i>	ICT, Social Media	K-12
Addressing the Whole Child: Social Emotional Learning with Coding & Digital <i>Rita Oates, President, Oates Associates</i>	CS, Social Emotional Learning	K-5
 Move to the Head of the Class with Google Classroom <i>Edith Fogarty, Technology Integration Facilitator, Bradford Elementary School</i>	All	All
 PBL in the form of Webquest <i>Mallory Higgins, Social Studies Teacher & Mallory Higgins, Merrimack SD</i>	SS	6-12
 K-5 Deep Dive: CS Standards <i>Heather Drolet, Technology Integrator, Christa McAuliffe School</i>	CS	Pre-K-5
 Inquiring Minds...Love Dialogue & Feedback <i>Karen Desjard, Media Specialist & Susan Wakelin, Londonderry SD</i>	ELA, SC, SS, HUM	6-12



CONCURRENT SESSION 1 8:00 - 8:50
CONCURRENT SESSION 2 9:35 - 10:25
CONCURRENT SESSION 3 11:10 - 12:00
KEYNOTE LUNCHEON 12:00 - 1:30
CONCURRENT SESSION 4 2:15 - 3:05

Session Title & Presenter(s)	Content Areas	Grade Level
Helping Students Overcome Their Biggest Nonfiction Writing Roadblocks <i>Melissa Stewart, Children's Book Author</i>	ELA, LIB	K-8
Integrated STEAM Education <i>Laura Thomas, Director, Center for School Renewal, Antioch University New England</i>	MA, SC, SS, ENG, HUM, CS	All
 Fun with Forms <i>Jenifer Hollander, Teacher Grade 5, Milford SD</i>	EC, ELA, MA, SC, SS, WL, ICT, LIB	K-5, 6-8, 9-12
 Library Boot Camp: Pumping up Student Energy & Autonomy <i>Laurie Williams, Librarian/Tech Integrationist, Newbury Elementary School</i>	LIB	PreK-8
PERSONALIZED STUDENT/PROFESSIONAL LEARNING		
 Technology to Support Competency & Achievement <i>Mike Muir, Proficiency-Based Education Specialist, GEAR UP Maine</i>	ELA, MA, SC, SS, WL, ICT, ENG, HUM	All
 Developing Student Technology Leaders Through GenYES <i>Kathryn Liston, Technology Integrator, Pelham SD</i>	ICT, CS, Student Leadership	All
 I Used to Teach, But Now I Coach <i>Nicole Cassamassino, Technology Integration Specialist, Bedford, SD & Lindsay Bucknam, Peter Woodbury School</i>	ELA, MA, SC, SS, WL, ICT	K-5

 McAuliffe Presenters have a star	 Keynote Speakers have a microphone	 Spotlight Speakers have a spotlight
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50 MINUTE CONCURRENT SESSIONS THURSDAY

Session Title & Presenter(s)	Content Areas	Grade Level
 Genre-fy Your Collection: A School's Journey & the Research Behind It <i>Rachel Small, Teacher Librarian, Pine Glen Elem, Burlington Public Schools & Pamela Harland, Faculty, Plymouth State University</i>	LIB	All
 Breaking Barriers <i>Julie Spang, Digital Learning Coach, Groton Dunstable Regional SD & Caitlyn Morris, Groton Dunstable Regional MS</i>	Pedagogy	All
 Project Based Learning in the Library <i>Robin Scott, Library Media Specialist, Groveton Elementary, MS & HS</i>	LIB, All	All
 Planning Your Time for Projects <i>Melissa Jellison, STEAM Teacher, White Mountains Regional HS & Jeannine LaBounty, SAU 36</i>	ELA, MA, SC, SS, ENG, HUM	6-12
Using Books to Encourage Children's Interest in STEM <i>Laurie Wallmark, Adjunct Assistant Professor - CS, Raritan Valley Community College & Jennifer Swanson, Johns Hopkins University Center for Talented Youth</i>	ELA, MA, SC, ENG, CS	All
 Personalized Professional Learning with Micro-credentials <i>Mike Muir, Proficiency-Based Education Specialist, GEAR UP Maine</i>	All, Professional Learning	All
COLLABORATIVE LEADERSHIP		
 Leading the Way Toward Innovation: Digital Age Librarians <i>Cathy Collins, Library Media Specialist, Sharon Public Schools</i>	ICT, LIB	All
 Pelham's Path to Personalization <i>Holly Doe, Enrichment/Technology, SAU 28</i>	Leadership, Technology Planning	All

Session Title & Presenter(s)	Content Areas	Grade Level
Blind Them with Library Science: Making Research-Driven Decisions <i>Pam Harland, Faculty, Plymouth State University</i>	LIB	All
 Instructional Technology Coaching <i>Matthew Joseph, Director of Innovation & Digital Learning, Milford Public Schools & Erin Fisher, East Bridgewater Public Schools</i>	EC, ELA, MA, SC, SS, WL, ICT	All
Supporting K-6 Digital Media Competencies <i>Susan Sabella, University Teaching Faculty, Plymouth State University</i>	ELA, ICT, ENG, Digital Media	K-5
Confessions of a One-Day-A-Week Librarian <i>Laura Thomas, Director, Center for School Renewal, Antioch University New England</i>	LIB	All
COMMUNITY PARTNERSHIPS		
Relevance While Facing Reality: Student Voice in School Violence Dialogue <i>Ruth Ellen Vaughn, Superintendent & Betsy Jacobsen, SAU 61</i>	ELA, SS, ICT	9-12
USE OF SPACE & TIME		
 Form Follows Function <i>Elizabeth Juster, English Teacher, Londonderry HS</i>	ELA	9-12

Closing Session, Raffle, & Refreshments ~ 3:05 following the last concurrent session



ATTEND CMTC FOR PLYMOUTH STATE UNIVERSITY CREDITS
PSU credit at CMTC is an in-depth opportunity to become more familiar with professional competencies required by today's instructional leaders. Educators can earn three (3) graduate credits in Technology Integration and/or Library Media by developing practical activities based on sessions and workshops at CMTC.

1. Register for and attend at least one full day of the conference. Please note: Registering for PSU credit does NOT include the cost of conference registration.
2. Pick up the PSU registration form at the PSU Exhibit booth.
3. Choose the sessions you want to attend at the conference.
4. Once registered for graduate credit you will receive an email from Plymouth with access to your course Moodle.
5. Login to the course Moodle after the conference to complete course requirements.

*For questions or additional information please contact the Technology Integration and Library Media Program Coordinator, Pam Harland, at Plymouth State University.
Email: pcharland@plymouth.edu
<http://lmseti.plymouthcreate.net/LMS/about/home/cmtc/>*

N HSAA and NHSTE in partnership with NHSLMA and the NHCTO Council hosts its 32nd year of exploring the role of technology for transforming teaching and learning!

IMPORTANT REMINDERS

- ▶ **General registration** is located in the Expo Center Concourse. Check in, get your name badge, and head right to the Armory for breakfast on Tuesday or into the Partner Pavilion on Wednesday and Thursday for breakfast and networking with the exhibitors if you arrive early.
- ▶ **Welcome and keynote** sessions begin at 8:00am in the Armory on Tuesday and Wednesday. The keynote luncheon runs from 12:00 to 1:30pm on Thursday.
- ▶ Tuesday, Wednesday, & Thursday ~ all new solution partner networking time in the **Partner Pavilion** throughout each day.
- ▶ **ALL BYOD workshops** on Tuesday, Wednesday, and Thursday (day and evening) are included in your conference registration fee – first come, first served! Evening BYOD ONLY require pre-registration.
- ▶ Question or having issues with your technology? Stop in at the **IT Student Help Desk** in the newly remodeled Salon Lobby.
- ▶ Tuesday & Wednesday ~ **dessert break** with our solution partners in the Partner Pavilion from 2:30 to 3:10pm.
- ▶ **At-a-Glance schedule and session descriptions** are ONLY available online. Visit www.nhcmctc.org throughout the fall for the latest information.
- ▶ **Garage parking** during the day is included in your conference registration. Remember to bring in your parking ticket and have it validated at the Parking Sponsor booth or registration desk.
- ▶ EVERY MORNING ~ **Teacher Showcases** in the Partner Pavilion.
- ▶ EVERY AFTERNOON ~ **Student STEAM Showcases** in the Partner Pavilion.
- ▶ EVERY DAY (AM and PM) ~ **EdTech Playgrounds** in the Partner Pavilion.
- ▶ You can earn **college credits** through Plymouth State University by attending CMTC.
- ▶ NHSTE Premium Members are welcome to relax, network, and take a break in the **NHSTE Premium Member Lounge** (NPML) on the Mezzanine level past the Hawthorne room.
- ▶ **LIKE** CMTC on Facebook and use **#nhcmctc** on Twitter to share your thoughts and receive conference updates.
- ▶ Keep your eye on Facebook and Twitter to learn more about the 2018 **Solution Partner Engagement Activity** ~ another opportunity to win great prizes!

SHOWCASES, EDTECH PLAYGROUNDS, & LEARNING BOOTHS

Join New England educators, students, and solution providers who gather to share their successful strategies integrating technology into learning experiences that engage and empower students in authentic and global learning environments.

We seek additional Showcase Presenters and Playground Directors throughout the fall to join our current participants. We have space for approximately 20 additional Teacher/Student Showcase and EdTech Playground opportunities total. We encourage you to join the fun and try the experience!

If you would like to be included as a Showcase Presenter or Playground Director, please go to the conference website at www.nhcmctc.org, register as a presenter, then complete and submit an online Showcase or Playground proposal. Submissions are accepted throughout the fall or until spaces are filled.

NEW FOR 2018, Teacher Showcases are highlighted on Tuesday, Wednesday, AND Thursday mornings, and Student Showcases are highlighted on ALL three afternoons. EdTech Playgrounds and Learning Booths are featured both morning and afternoon as space permits. **CHECK OUT THE CMTC WEBSITE TO SEE WHEN THESE SESSION ARE SCHEDULED & NEW PROPOSALS!**

TEACHER SHOWCASES

Connecting ISTE Standards, Digital Portfolios, & Competencies

Deb Boisvert, Consultant, Google Certified Educator & Edith Tatulis, Deerfield Community School

Digital Interactive Engineering Design Notebooks for STEM Students

Beth Sommers, Curriculum Integration Teacher & Sue Bacon, Greenland Central School

Khan Academy

Jeremy VanDerKern, Educator

STEAM: Students Teaching Empowering Advocating Mentoring

Frank Xydias, Engineering & STEAM Educator & Rich Paiva, Milford SD, SAU 40

Create a Full Length Student Made Movie

Brian Chagnon, Videography & Photography, SAU 61

NH Kids Code

Heather Drolet, Technology Integrator, Christa McAuliffe School

STUDENT SHOWCASES

Building a F.E.E.R.S.E Robot

Doug Roy, TeacherSAU & Ashley O'Neill, Lamprey River Elementary School, SAU 33

Sharing Student Voice: Generation YES Youth & Educators

(Teams 1, 2, & 3) Ethel Gaides, Assistant Superintendent, SAU #48 & Kiley Kapp, Campton Elementary School

There's an App for That & Students Made it

Joanna Marcotte, Computer Science Teacher & Cassie Hayes, The Founders Academy

LEARNING BOOTHS

Learning Through Play & Wonder with Dash, Dot, & Cue

Jeff Mao, Sr. Strategic Outreach Manager, Wonder Workshop

EDTECH PLAYGROUNDS

Project-based STEM Learning

Natalie Breen, Instructional Technology/STEM Teacher, Westminster Elementary School & Tiffany Davis, AWRSD

Building the Capacity to Make Things Possible

Jennifer Stylianos, Occupational Therapist & Heather Gray, Gray Consulting & Therapy

Getting Started with Raspberry Pi

Tammy Andrew, CS Teacher, Milford HS & Joanne Lau

Using Apps to Close the Gaps Finding & Using Effective Educational Apps

Libby Curran, Special Educator, Reading Elementary School

Grade 8 Science!

KarolBeth Glover, Technology Integration Teacher & Steve Roberts, InterLakes School

Digital Photography & the Art of Manual Control

Shannon McCracken, S.T.E.A.M. Educator, SAU 61, Farmington HS

Rockin' Creations with Tech

Michelle Witt, Grade 1 Teacher & LJ Dutton, SAU 90

A COMPLETE DIRECTORY OF STUDENT AND TEACHER SHOWCASES AND THE EDTECH PLAYGROUNDS AND THEIR RESPECTIVE DESCRIPTIONS ARE AVAILABLE ON THE CMTC WEBSITE: WWW.NHCMTC.ORG

REGISTRATION OPTIONS & INFORMATION

VISIT THE CMTC WEBSITE TO REGISTER: WWW.NHCMT.C.ORG

1. **REGISTER ONLINE** from the Register Online link in the Conference Links box on the home page.
2. **OR BY MAIL** Download & print the Registration Form from the Conference Links box on the home page. The printed version of the registration form may be mailed, emailed, or faxed:

NHSAA

46 Donovan Street, Suite 3

Concord, NH 03301

Fax: 603-225-3225

E-mail: mallorie@nhsaa.org

If you are unable to access either online option, call NHSAA at 603-225-3230.

The following information has answered many questions asked in the past. If you have additional questions after reading the following notes, please call the NHSAA office at 603-225-3230.

FAQ

CONFIRMATION ALL online registrations will be confirmed by email within

24 hours of registering. If you do not receive a confirmation, please call the NHSAA office at 603-225-3230. Registrations submitted using mail or fax will receive an email confirmation once the office staff has entered your registration into the database. If you are registering through your school district, you are encouraged to check with your district

to confirm the processing of your registration.

Please note that once your registration is received and confirmed, you are responsible for payment in the event your district does not approve your paperwork. If you have any questions regarding the status of your registration, please feel free to call the NHSAA office.

ONSITE REGISTRATION It is possible that we will not be able to process onsite registrations at the door. Pre-registration is your best option to avoid sold out sessions and problems with late arrival.

COPY YOUR REGISTRATION FORM You are encouraged to make a copy of your registration form before mailing it to NHSAA or submitting it to your school district for processing.

WHAT IS INCLUDED General Registration includes breakfast, lunch, an afternoon break, all concurrent & BYOD sessions, and entrance to the Expo Center. Garage parking during the day is also included (validate your ticket at the registration desk).

CANCELLATIONS Cancellations **MUST BE IN WRITING** and received prior to Friday, November 2. Registration fees (either general or PreConference workshops) are non-refundable and subject to regular billing after November 2. Please send cancellation requests to the NHSAA office: 46 Donovan Street, Suite 3, Concord, NH 03301 or mallorie@nhsaa.org.

PAYMENT OPTIONS Fees must be paid to NHSAA **BEFORE THE CONFERENCE** unless your school district submits a purchase order. Registrations with accompanying purchase orders may be faxed to the NHSAA office at 603-225-3225. Conference Registration Forms must be completed and attached for each person listed on any purchase order. Checks and purchase orders must be made payable and sent to: NHSAA, 46 Donovan Street, Suite 3, Concord, NH 03301.

HOTEL ACCOMMODATIONS (See hotel information, [page 36](#)) Registration and meal costs are exclusive of overnight room and parking charges. To reserve a room at the DoubleTree you may:

1. call the DoubleTree at 603-625-1000 (be sure to tell them you are with the conference)
2. complete the Hotel Registration Form (available at www.nhcmtc.org) and return it directly to the hotel by mail or fax

Make your room reservations before Friday, November 9 to ensure you receive the reduced conference rate.

SPECIAL SERVICES Requests for special services for persons with disabilities must be received in writing (email or fax) by October 10, 2018. Please fax requests to Jen at 603-225-3225 or email to jennifer@nhsaa.org. Unfortunately, requests for special services and accommodations received after 10/10/18 will not be accommodated.

NHSTE MEMBERSHIP If you wish to become a NHSTE Premium Member in order to receive the NHSTE discounted conference rate, please see [page 34](#) for membership information. Checks or purchase orders should be sent SEPARATE from your conference registration and payable to: NHSTE, 46 Donovan Street, Suite 3, Concord, NH 03301.

LUNCH NOTES

- ▶ We are able to offer a sit-down or box lunch – both with a vegetarian option – on Tuesday, Wednesday, and Thursday. You must indicate your lunch preference when registering for each day you plan to attend the conference. If you do not make a selection, the sit-down lunch will be assumed. You cannot change your lunch selection at the conference.
- ▶ Attendees opting for the box lunch are now permitted to eat in the sit-down lunch area in the Partner Pavillion.
- ▶ If personal situations present special dietary restrictions, please include them with your registration and we will do our best to accommodate your needs.
- ▶ See [page 8](#) for more information on the Thursday keynote luncheon presented by Jennie Magiera in the Armory.

MONDAY PRECONFERENCE & EVENING BYOD WORKSHOP REGISTRATION NOTES

- ▶ Monday PreConference and evening BYOD workshops are filled on a “first-come, first-served” basis.
- ▶ Monday PreConference workshops REQUIRE pre-registration and a registration fee. The registration fee for Master It & Take It (MITI) workshops includes both the workshop registration and the device offered. **MITI registration deadline is October 31.**
- ▶ Tuesday and Wednesday evening BYOD workshops REQUIRE pre-registration AND Conference Registration for at least one day of the conference (Tuesday, Wednesday, or Thursday). There is NO additional fee for BYOD workshops.
- ▶ If you would like to sign up for a PreConference or evening BYOD workshop and your district is processing your registration form, it is recommended that you send in a copy of your registration form on your own (ahead of district processing) to ensure a seat.

Register early to ensure your seat in a Preconference workshop!

PLEASE NOTE THE FOLLOWING IMPORTANT INFORMATION REGARDING REGISTRATION

All cancellations MUST BE IN WRITING and received prior to November 2.

ALL registration fees (general or PreConference work shops) are non-refundable and subject to regular billing after November 2nd. Please direct any questions to the staff at NHSAA:

Phone: 603-225-3230 Email: mallorie@nhsaa.org

CONFERENCE REGISTRATION RATES

	General Registration	NHSTE Premium Member Registration	NHSLMA Premium Member Registration
3-days	\$495	\$465	\$465
Tuesday only	\$175	\$170	\$170
Wednesday only	\$175	\$170	\$170
Thursday only	\$175	\$170	\$170



The NHSTE website and membership database allows YOU to complete your membership application (new or renewal) online at your convenience and pay with your credit card. Details can be found at www.nhste.org or scan the QR code.

NHSTE OFFERS FREE & PREMIUM MEMBERSHIP OPTIONS

The BASIC (free) NHSTE membership keeps you up-to-date on NHSTE professional learning and organizational information. All you need to do is provide us with your basic contact information.

PREMIUM NHSTE membership includes:

1. **STAY UP TO DATE** Receive frequent updates through the tech coordinator, tech teacher, and listservs.
2. **HAVE YOUR VOICE REPRESENTED** NHSTE representatives participate in public hearings, state level committees, and major grant initiatives.
3. **ACCESS THE LATEST PROFESSIONAL LEARNING** Participate in NHSTE professional learning events, partnered workshops, tech coordinator days, and courses with other districts.
4. **GET MORE FOR YOUR DOLLAR** Get the Premium Member discounted registration rate on NHSTE sponsored events including CMTC and NHSTE workshops.



SAVE MONEY Get 5-10% off NHSTE professional learning events and the Christa McAuliffe Transforming, Teaching, & Technology Conference registration fee.

SAVE TIME Stop filling out multiple purchase orders. Buy one year's worth of NHSTE professional learning events with one purchase order. You will get event coupon ID numbers to place on all registration forms or online, all from one purchase order. It's that easy!

SAVE HEADACHES Less paperwork, less planning, and more freedom to act on short notice.

MORE FLEXIBILITY Get all of your coupon ID numbers up front to distribute at your convenience.

MORE PARTICIPATION Freedom to get more people involved in NHSTE professional learning events.

NHSTE PROFESSIONAL LEARNING EVENTS INCLUDE:

- Christa McAuliffe Transforming, Teaching, & Technology Conference (CMTC)
- Tech Coordinator SIG meetings/round tables"
- Tech Teacher SIG integration workshops annually
- **N3** – NHSTE's Night of Networking
- Makey Makey MITI Workshops
- Other sponsored professional learning

BUY A BUNDLE SAVE A BUNDLE

A BETTER WAY There is now an easier way to link New Hampshire teachers and administrators to the latest technology information and training. NHSTE offers Bundle Packs to K-12 school districts that open the door to NHSTE workshops and special events.

AN EASIER WAY Bundle Packs come in several sizes that are sure to fit your need and budget. Each pack comes with coupon ID numbers that can be used to pay for workshops or NHSTE-sponsored special events. Coupon ID numbers can be passed out as needed, allowing a variety of teachers, administrators, and staff to take advantage of these offerings.

A MORE ORGANIZED WAY Bundle Packs solve a lot of bookkeeping headaches. A number of professional learning events can be paid for in one purchase instead of having to process many purchase orders throughout the year. The coupon ID numbers work like money, with each ID number having the value of approximately \$35 to \$40. For example, the NHSTE Night of Networking will require one coupon ID number. Coupon ID numbers are valid for one year from date of purchase of your bundle.

K-12 SCHOOL DISTRICT BUNDLE PACKS

- 5-Pack for \$998 Save 5% on 5 NHSTE event coupons and 5 one-day registrations at CMTC
- 10-Pack for \$1,953: Save 7% on 10 NHSTE event coupons and 10 one-day registrations at CMTC
- 20-Pack for \$3,780: Save 10% on 20 NHSTE event coupons and 20 one-day registrations at CMTC

Join those attending the 22018 Christa McAuliffe Transforming, Teaching, & Technology Conference co-sponsored by NHSAA and NHSTE. If you meet the following criteria, you and your colleague(s) may qualify for free registration to attend this important event for one day.

- ▶ You are an educator.
- ▶ You have a colleague(s) who will team up with you.
- ▶ You are willing to share what you learn at this conference with others in your school/district.
- ▶ You receive approval from your school or district administrator.
- ▶ Your school/district has a financial need.
- ▶ Your school/district has demonstrated a commitment to technology.
- ▶ Your application is received on time ~ deadline is October 22, 2018!

DISTRICT TEAMS: Successful teams consist of 8 to 12 members from a school system, including a broad representation of roles (teachers, administrators, school board members, and others). Your application should include a list of members and your reason for applying. It should also signify your willingness to use the results for improving the integration of technology in your schools. The scholarship includes free registration for all team members for one day at the conference. The amount of this award ranges from \$1,400 to \$2,100 per team.

The H. Charles Larracey Scholarships are offered annually in recognition of his many years of service and tireless efforts in the development of technology in the public schools of New Hampshire and the creation of the Christa McAuliffe Technology Conference.



There are two different scholarship opportunities available.

1. SCHOLARSHIP FOR PAIRS NHSAA & NHSTE offer CMTC Scholarships for 15 pairs of educators seeking to attend CMTC who might not have the opportunity to do so because of limited funding resources. Follow the directions to apply for a \$350 scholarship that covers registration costs for two people, including lunch, for one day:

- Find a colleague who is interested in learning more about educational technology.
- Complete the application stating why you would like to attend.
- Describe how you intend to share the information gained by attending this conference with others from your district.

2. SCHOLARSHIP FOR A DISTRICT TEAM The H. Charles Larracey Memorial Scholarship is awarded in recognition of H. Charles Larracey, a distinguished New Hampshire educational leader from Keene and one of the original founders of this conference. Two team scholarships for a full day at the Christa McAuliffe Technology Conference are granted. These two team scholarships are given annually in memory of Chuck's belief in the potential of teamwork and the power of high-quality professional learning.

TO APPLY download the Scholarship Application from the website: www.nhcmctc.org. The deadline to submit the completed application is **MONDAY, OCTOBER 22.**

HOTEL INFORMATION

DOUBLETREE BY HILTON MANCHESTER DOWNTOWN

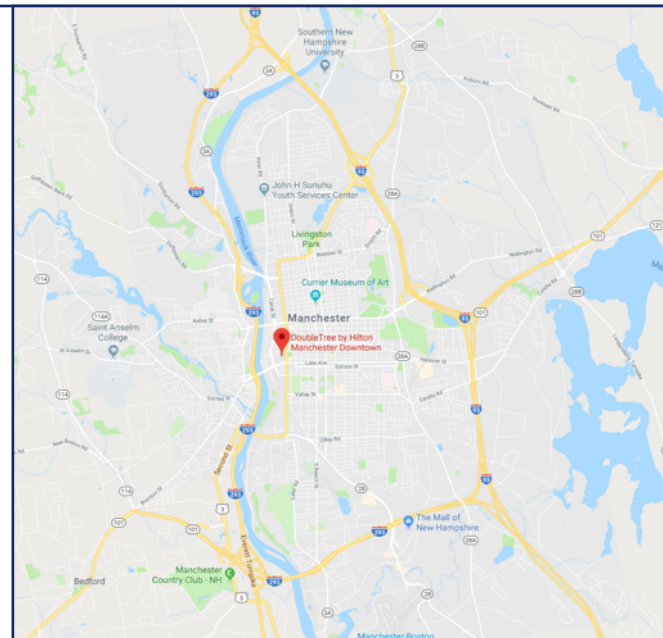
700 Elm Street, Manchester, NH 03101

(603) 625-1000, toll free (800) 967-9033. Fax: (603) 206-4000.



CMTC ROOM RATES: \$114.00 single/double occupancy (plus NH hotel tax) Sunday, November 25, 2018 – Thursday, November 29, 2018. Reservation Deadline: Friday, November 9, 2018. Reserve a room by phone or mail or fax (number and address above) your reservation form directly to DoubleTree by Hilton Manchester Downtown. To mail or fax your hotel reservations, download the Hotel Reservation form from www.nhcmctc.org.

To receive the special conference rate, individuals must indicate that they are with the Christa McAuliffe Technology Conference. All reservations made after Friday, November 9, 2018 may be subject to the hotel's prevailing rates.



CMTC 2018 CLOSING SESSION

PLEASE JOIN US AT THE
CLOSING SESSION & RAFFLE

—REFRESHMENTS SERVED—
You must be Present to win!

THURSDAY 3:05 PM NOV 29TH

You could even win a CMTC 2019 conference registration

ISTE
2019
PHILADELPHIA

Date

June 23-26
2019

Location

Pennsylvania
Convention
Center

The CMTC Steering Committee wants to thank all our sponsors and solution partners committed to supporting our 32nd Christa McAuliffe Transforming, Teaching, & Technology Conference at the time of going to press

Sponsorships are still available; please contact Carl@nhsaa.org if you are interested.

Please check out the conference website – www.nhcmtec.org – for the most up-to-date list of our solution partners registered for CMTC 2018.

SOLUTION PARTNERS TO DATE

- ABDO
- Alma
- Antioch University New England
- CCS Presentation Systems
- Computer Resources, LLC
- Consolidated Communications
- EBSCO Information Services
- Eduporium
- Firstlight
- Granite State College
- Gray Consulting & Therapy
- Kajeet
- Lightspeed Technologies
- New England Basecamp
- Norris Inc.
- Otus
- Plymouth State University
- ReVision Energy
- RTM Communications, Inc
- Ruckus Networks
- Tech Ed Concepts, Inc.
- Trinity3 Technology
- University of New Hampshire
- Wonder Workshop



CONFERENCE PARTNERS



CONFERENCE CO-SPONSORS

SOLUTION PARTNER SPONSORSHIPS



NHSAA
NHSTE
46 Donovan Street, Suite 3
Concord, NH 03301



32 YEARS OF
TRANSFORMING
TEACHING &
LEARNING WITH
TECHNOLOGY

November 27-29, 2018  DoubleTree by Hilton Manchester Downtown  Manchester, NH

CMTC 2018 PROGRAM GUIDE www.nhcmtc.org