DECEMBER 3 - 4, 2019

at the DoubleTree
by Hilton Manchester Downtown
Manchester, NH

Co-Sponsored by the
NH School Administrators
Association NHSAA and
NH Affiliate of ISTE NHSTE

In Partnership with the
NH School Library Media
Association NHSLMA and
NH CoSN Affiliate NHCTO Council
IMPORTANT REMINDERS

“MIX-N-MATCH” MONDAY PRECONFERENCE WORKSHOPS
New for 2019, MIX-N-MATCH Monday PreConference workshops! This year, in addition to three full-day workshops and six evening workshops we have a host of 3-hour morning and afternoon workshops from which you may choose to design your perfect day. There are five 3-hour morning workshops and seven 3-hour afternoon workshops, see pages10-15 for all the details.

TUESDAY & WEDNESDAY MORNING SCHEDULES
This year Tuesday and Wednesday morning schedules begin at 8:00am with concurrent sessions. Remember to arrive in time to park your car and pick up your name badge in the Salon Lobby before 8:00am. See pages 18-21 for the concurrent session listings by day and Future Ready theme. Go to the conference website (www.nhcmtc.org) under ATTEND~PROGRAM~CONCURRENT SESSIONS for the full concurrent session schedule. Continental breakfast is served in the Armory from 7:30 - 9:30.

SOLUTION PARTNER ENGAGEMENT OPTIONS
Following the first concurrent session, engage with our solution partners choosing one of the following opportunities from 8:50 - 9:40 (session 2):
- Visit the Partner Pavilion located in Pemigewasset and Piscataquisuq
- Attend a 30-minute Presentation in the 2nd floor rooms (9:00 - 9:30)
- Participate in a 30-minute RoundTable in the Armory (9:00 - 9:30)
- Explore the Learning Booths in the Armory
These same opportunities are offered from 10:30 - 11:20 (session 4) and 1:50 - 2:20 (session 6) each day. See pages 24-26 for the solution partner Presentations and RoundTables proposed to date. Check the conference website, online planner, and mobile app for the full solution partner Presentation and RoundTable schedules.

KEYNOTE LUNCHEON
On BOTH Tuesday and Wednesday, head to the Armory for the welcome and keynote luncheon starting at 11:20am. Detailed information about our keynotes is found on pages 5 and 7. Olivia and Pernille expect to be available for book signing following the keynote around 1:00, watch for specifics on the Daily Addendum. Dessert will be served in the Armory from 1:50 - 2:20.

SHOWCASES AND PLAYGROUNDS
Head to the Armory each day to explore Student Showcases in the morning (9:00 - 10:30), Teacher Showcases in the afternoon (1:30 - 3:00), and EdTech Playgrounds both morning & afternoon as space permits. See page 22 for Showcases and Playgrounds confirmed to date. We seek additional proposals throughout the fall until the schedule is filled.

EDCAMP COMES TO CMTC
Not able to find a session that meets your professional learning needs, have some tips/tidbits you want to share, or looking to discuss a topic with your colleagues? Each day during the four 50-minute concurrent sessions (1, 3, 5, 7) you may offer to facilitate an EdCamp session or RoundTable discussion at a table in the Armory. Anyone registered for CMTC19 may signup in November and/or onsite if spaces remain. Keep an eye on the conference website for the link to submit EdCamp and RoundTable proposals in the fall.

MONDAY EVENING FREE PARENT/STUDENT FORUM
Parents and K-8 students are invited to join our Tuesday keynote speaker, 12-year old Olivia Van Ledtje @theLivBits and her mom, Cynthia Merrill as they share five key ideas that matter for connected learners. This mother and daughter interactive presentation will give you much to consider about YOUR child’s digital life. Monday evening from 6:30 - 8:00, see page 15 for details. RSVP via the conference website in early November.

TUESDAY EVENING BYOD WORKSHOPS
Tuesday evening (6:30 - 8:30) BYOD workshops are included in either Tuesday or Wednesday conference registration. Take full advantage of your registration benefits and check out the five workshops offered on pages 16-17. Pre registration is required, but there is no additional cost for these 2-hour hands-on workshops.

ONLINE PLANNER & MOBILE APP
Use the Sched online planner and mobile app to review the full schedule, plan your agenda, and submit session evaluations.
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.

- Tammy Andrews  
- Deb Boisvert  
- Elizabeth Brown  
- Nicole Cassamassino  
- Susan Cavanaugh  
- Brian Chagnon  
- Cathy Cibotti  
- Karen Cowles  
- Libby Curran  
- Kathleen Dasho  
- Krista Day  
- Kai Dennett  
- Karen Desjardin  
- Mary DeWinkeleer  
- Christine Donoghue  
- Amy Downing  
- Heidi Doyle  
- Heather Drolet  
- Thea Durling  
- Chantal Duval  
- John Fladd  
- Edith Fogarty  
- Dana Foulds  
- Todd Guilford  
- Tim Harkins  
- Pam Harland  
- Joelle Henry  
- Jenifer Hollander  
- Rachel Hopkins  
- Elizabeth Juster  
- Erin Kane  
- Kiley Kapp  
- Helen Kelley  
- Edward Kissell  
- Erin Knoetig  
- Rachel Kuberry  
- Sarah Jordan  
- Andrew LaFlame  
- Chris Lindsay  
- Jennifer Lowton  
- Kerry Lunn  
- Tim Maki  
- Barbara Mantere  
- Joanna Marcotte  
- Kathleen McClaskey  
- Aurora Merry  
- Allison Mollica  
- Amber Murphy  
- Chip Nyhan  
- Samantha O’Connor  
- Peter Olson  
- Jessica Pereira (student)  
- Jane Pollard  
- Annie Proulx  
- Lori Puzzo  
- Julie Quesnell  
- Heather Raab  
- Stephanie Racine  
- Lisah Rhodes  
- Debra Rodd  
- James Sgroi  
- Craig Sheil  
- Rachel Small  
- Josh Smith  
- Judith Smith  
- Kara Speaker  
- Michael Thompson  
- Nels Tooker  
- Etienne Vallee  
- Jeanna Wagner  
- Susan Wakelin  
- Ian West  
- Kristin Whitworth  
- Laurie Williams  
- Denise Wood  
- Maureen Yoder  
- Cynthia Young

Over 75 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, admin-istrators, 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

Mark your calendars now for the Christa McAuliffe Transforming, Teaching, & Technology Conference December 1 - 2, 2020
Watch for details in the mail in the spring of 2020 and on our website www.nhcmtc.org

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FROM THE GOVERNOR & TABLE OF CONTENTS

December 3, 2019

Dear Friends:

Welcome to the 33rd 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 the Christa McAuliffe Transforming Teaching
Technology Conference was created.

As always, this conference provides an excellent opportunity for educators to share how
best to incorporate technology into our classrooms. Integrating technology and education
has numerous benefits for our students, and I thank everyone for taking the time to
discuss what strategies and solutions work best in the learning environment.

New Hampshire is home to many bright and talented young people and ensuring that they
are familiar with the latest technology benefits them as they pursue further education and
careers. This conference is in keeping with the legacy of Christa McAuliffe, and helps
teachers as they empower students to feel prepared in an ever-changing world.

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
these in attendance. My best wishes for another successful conference!

Sincerely,

Christopher T. Sununu
Governor

STATE OF NEW HAMPSHIRE
OFFICE OF THE GOVERNOR

CHRISTOPHER T. SUNUNU
Governor

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Christopher T. Sununu
Governor

107 North Main Street, State House - Rm 396, Concord, New Hampshire 03301
Telephone (603) 271-2171 • FAX (603) 271-7848
Website: http://www.governor.nh.gov • Email: governor@nh.gov
TD/Access Relay NH 1-800-741-2264
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
TOM BEER  Consultant, Solution Partner Support
DEB BOISVERT  Student Showcase & EdTech Playground Supervisor
SUSAN CAVANAGH  EdTech Playground Co-Lead
CYNDI DUNLAP  CMTC Co-chair & NHSTE Professional Learning Chair
STAN FREEDA  Learning Consultant, NHDoE, NHSTE President 2017-19
JERRY FREW  Associate Executive Director, NHSAA
JOE GRUCE  Teacher Showcase Lead
KYMRA KURINSKAS  Marketing & Event Coordinator, NHSAA
CARL LADD  Executive Director, NHSAA
GREG LIMPERIS  Director of Technology, Hampton SD
JENNIFER LOWTON  Director of Technology, Farmington SAU 61
ANDREA O’NEIL  EdTech Playground Co-Lead
GLEN PAGE  Systems Administrator, Thetford Academy
PAULA PHANEUF  Office Assistant, NHSAA
NANCY ROSE  Director of Technology & Library Media, Merrimack SD
DIANA PETSCHAUER  AT Consultant, Assistive Technology Support
KRISTIN WHITWORTH  Librarian Barnstead Elementary School
FAITH WILSON  Office Manager, NHSAA

In the summer of 2018, 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

The CMTC Steering Committee would like to thank SMCC graduate Jessica Libby 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.
WELCOME
Dr. Carl Ladd, Executive Director, NHSAA
Dr. Lorraine Tacconi-Moore, President, NHSAA

KEYNOTE: WHAT MATTERS? THE FUTURE, IT’S ME!
Olivia Van Ledtje, @TheLivBits
Keynote Speaker, Book Activist, Dreamer, & Author

Join Olivia for her concurrent sessions in Merrimack.

CONCURRENT SESSION TITLES and their respective presenters are clustered according to the eight Future Ready Framework Gears on pages 18-19 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.nhcmtc.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 Presentations are marked by this microphone, look for the symbol throughout the brochure to find their sessions**

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.
OLIVIA VAN LEDTJE @TheLivBits, Keynote Speaker, Book Activist, Dreamer, & Author

Olivia Van Ledtje (“LivBit”) is an eleven-year-old reader, thinker, and kids’ voice believer. Using technology to inspire empathy, equity, and activism, Olivia’s mission is to share messages with the world that are hopeful, kind and true. Olivia is the creator of LivBits—short videos for kids and teachers about reading, thinking, and life. Her work is featured internationally as a model for digital citizenship and kid creation. She is a seasoned keynote speaker, with her own podcast, The KidLit Show, and co-author of Spark Change: Making Your Mark in a Digital World. Recently, Olivia was honored at Google Headquarters in San Francisco, CA with a Digital Rock Star award as well as a #Digital4Good award for her work on LivBits. Olivia looks forward to engaging with authors and educators who share her drive to promote reading, thinking, and digital citizenship for kids. Above all, Olivia prides herself in creating “heartbeeps” for the world. In June, Olivia keynoted the library media specialist breakfast at ISTE19 in Philadelphia. This fall, she is releasing her first book co-authored with her mom Cynthia Merrill.

CONNECT with Olivia on social media, @thelivbits, and visit her website at www.theLivBits.com

What Matters? The Future, It’s Me!
Liv’s work as a “book activist” has gone global and inspired her to understand her place in the world through technology creation and connected learning opportunities. In this keynote, 12-year-old Olivia Van Ledtje shares 5 idea keys that matter for connected learners—hear how these ideas have helped Liv #SparkChange.

Olivia and Cynthia conduct the following workshops and concurrent sessions:
Monday afternoon from 12:30 - 3:30pm STUDENT VOICE, AUTHENTIC AUDIENCES, & ORIGINAL PUBLICATIONS
Monday evening Parent Forum at 6:30pm TIPS FOR STAYING SAFE, SAVVY, & SMART ONLINE
Tuesday at 8:00am CRAFTING YOUR DIGITAL IDENTITY WITH A GLOBAL AUDIENCE
Tuesday at 9:40am BOOK BOSSES: READING, THINKING, & CREATING WITH TECH

Following the luncheon keynote presentation Olivia and Cynthia will be available in Stark for book signing.

CHECK WWW.NHCMTC.ORG FOR FULL SESSION DESCRIPTIONS
**WEDNESDAY 11:20-12:50 IN THE ARMORY**

**WELCOME**
Dr. Carl Ladd, Executive Director, NHSAA  
John Martin, President, NHSTE

**KEYNOTE: PASSIONATE LEARNERS – HOW TO ENGAGE AND EMPOWER YOUR STUDENTS**

Join Pernille for her concurrent sessions in Merrimack.

**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 eight Future Ready Framework Gears on pages 20-21 to help you decide which day has the best sessions for you.

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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.
Pernille Ripp is an expert in literacy and technology integration and passionate advocate for education. She dedicates her research and practice to developing engaged and empowered students and communities. In 2010, Pernille founded The Global Read Aloud (GRA), a global literacy initiative that began with a simple goal in mind: one book to connect the world. The GRA has grown to connect more than 4,000,000 students in more than 80 different countries. Pernille has authored multiple books focusing on creating learning spaces and communities where students thrive and all stakeholders are empowered and passionate about learning. Her work has been featured in many print and online journals. With her mentoring, her own students’ blogs have received more than 600,000 unique views since they began. Pernille’s current research interest is in creating passionate literacy environments within the restriction of our current educational systems to help students fall in love with literacy again. She uses her own classroom as a laboratory, as well as learns from the many educators she works with across the world. Pernille is a Skype Master Teacher; recipient of the 2015 WEMTA Making IT Happen Award; and the 2015 ISTE Award for Innovation in Global Collaboration.

CONNECT with Pernille on social media, @pernilleripp or @globalreadaloud and check out her blog at https://pernillesripp.com.

Passionate Learners – How to Engage and Empower Your Students
Would you want to be a student in your own learning environment? Based on her book Passionate Learners: How to Engage and Empower Your Students, join 7th-grade teacher Pernille Ripp to explore how to create a positive, interactive learning environment where students drive their own academic achievement. Hear practical strategies for how to build a meaningful relationship with your learners based on mutual trust, respect, and honesty. Share ownership of the classroom and school with them. Break out of the vicious cycle of punishment and reward to control student behavior. Based on common sense strategies, personal story telling, and the research behind student engagement, this is a keynote meant to move you to action. Whether you are just beginning or well on your way in your teaching career, this session is meant to inspire you, help you take some risks, and eagerly pursue your journey toward a school filled with passionate learners.

Pernille conducts the following concurrent sessions:
Wednesday at 8:00am PASSIONATE TEACHERS
Wednesday at 9:40am REIMAGINING LITERACY THROUGH GLOBAL COLLABORATION

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

JESSICA GILCREAST
School Librarian
Jessica has been a school librarian for 13 years and is currently the librarian at Bedford High School. She is the 2019 School Librarian of the year and Edies recipient. She has served on the board for the New Hampshire School Library Media Association and was the Region 1 affiliate rep for the American Association of School Librarians. She is currently the Director of Communications for the Guild of International Baccalaureate (IB) Schools and yearbook advisor at Bedford High School.

CONCURRENT SESSIONS:
Librarians: Bartenders of the Book Collection
Wednesday concurrent session
12:50 -1:40

Pushing Yourself to Challenge Others (co-presenting)
Tuesday concurrent session
2:30 - 3:20

MONDAY PRECONFERENCE
#sketchEDnh (co-presenting)
Monday PreConference Workshop
8:30 - 11:30

CRAIG SHEIL
Digital Learning Specialist
Craig has over 16 years experience in public education. He has served as a high school mathematics teacher and currently as the Digital Learning Specialist at Bedford High School. He can also be found co-teaching graduate level technology courses at Fitchburg State University. Craig is a Google for Education Certified Trainer. He was honored to receive the NHSTE Susan Janosz Award in November 2018. Craig thoroughly enjoys teaching others how to utilize technology purposefully in the educational setting.

CONCURRENT SESSIONS:
What’s the fuss about Jamboard? (co-presenting)
Wednesday concurrent session
8:00 - 8:50

#GoogleAddict 4.0 (co-presenting)
Wednesday concurrent session
2:30 - 3:20

MONDAY PRECONFERENCE
#sketchEDnh (co-presenting)
Monday PreConference Workshop
8:30 - 11:30

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Monday PreConference Workshop
8:30 - 11:30
KERRY GALLAGHER
Assistant Principal for Teaching and Learning, St. John’s Prep School, Danvers, MA
Kerry is also the Director of K-12 Education for ConnectSafely.org and internet safety non-profit located in Palo Alto, California. Additionally she is a FutureReady Instructional Coach, ASCD Emerging Leader, Adobe Education Leader, PBS LearningMedia Digital Innovator, and EdSurge Columnist. She served as a middle/high school teacher and digital learning specialist for over 15 years. Her passions include digital citizenship and effective integration of curriculum, pedagogy, and edtech. Kerry is a TEDx & keynote speaker and a lawyer by training. She was recognized with accolades for her work by the Family Online Safety Institute in 2015, MassCUE in 2016, and SmartBrief and St. Anselm College in 2018. She is on social media @KerryHawk02 and her website is www.KerryHawk02.com.

CONCURRENT SESSIONS:
Teaching Media Literacy in an Era of Fake News
Wednesday concurrent session 9:40 - 10:30

Panel ~ Voice Assistants (Alexa/Google) for Learning?
Wednesday concurrent session 12:50 - 1:40

Balancing Data Privacy & Innovation
Wednesday concurrent session 2:30 - 3:20

JASON PARENT
Principal Londonderry High School
As Principal, Jason is responsible for the leadership and management of the school’s 1,500 students and 125-member professional staff. He is also a Granite State Leadership Academy Fellow and a member of the Executive Council of the NH Interscholastic Athletic Association. In 2019, he received the New England Scholastic Press Association “Freedom to Write Award” given at Boston University College of Communication that honors a school administrator in NE who actively encourages and supports students and their advisors in the exercise of responsible scholastic journalism. These administrators inspire students and faculty to use journalism as a way to participate more fully in a democratic society. Mr. Parent was also the NH Association of Student Councils “Administrator of the Year” in 2018 and was inducted into the Londonderry High School Hall of Fame in 2017. Before becoming Principal, he was an Assistant Principal at Londonderry High School and was acknowledged as the 2007 NH Assistant Principal of the Year. Prior to Londonderry, Jason served as an administrator and a teacher of English at Goffstown Area High School.

Covering Online School News: Collaborating with Your Principal
Tuesday concurrent session 8:00 - 8:50
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. 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. Final prices will be listed on the website, on the downloadable registration form, and via online registration no later than Monday, September 16th. The device model and specifications will be posted on the CMTC website by Monday, October 7th. REGISTRATION DEADLINE FOR MITI WORKSHOPS is Wednesday, November 6th.

ALL WORKSHOPS are offered in both the MITI and BYOD formats unless otherwise noted.

CANCELLATIONS MUST BE IN WRITING (fax or email) and received prior to Thursday, November 7th. All registration fees for PreConference workshops are non-refundable and subject to regular billing after November 7th.

MOST MITI WORKSHOPS ARE ALSO OFFERED AS BYOD
BYOD attendees are responsible for bringing their own device(s) as specified on the website.

7:30 AM Continental Breakfast
(included in full-day and morning registration fees)

Full-Day Workshops 8:30am - 3:30pm
(6-hours, plus a 1-hour lunch break)

<table>
<thead>
<tr>
<th>Workshop</th>
<th>MITI</th>
<th>BYOD</th>
<th>Description</th>
</tr>
</thead>
<tbody>
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<td>PreC01</td>
<td>MITI</td>
<td>BYOD</td>
<td>Girls in STEAM: Drones &amp; Art Amanda Bastoni, Erin Knoetig</td>
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<tr>
<td>PreC02</td>
<td>MITI</td>
<td>BYOD</td>
<td>Full STEAM Ahead with Hummingbird Robotics Heidi Doyle</td>
</tr>
<tr>
<td>PreC03</td>
<td>MITI</td>
<td>BYOD</td>
<td>Google Educator Level 1 Certification Bootcamp Allison Mollica</td>
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<tr>
<td>PreC04</td>
<td>MITI</td>
<td>BYOD</td>
<td>Teacher Academy using Microsoft Teams AJ Herrmann</td>
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<tr>
<td>PreC05</td>
<td>MITI</td>
<td>BYOD</td>
<td>Merge Technology with Handwritten Notes: Rocketbook Everlast Deb Boisvert Offered also in the evening</td>
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<tr>
<td>PreC06</td>
<td>MITI</td>
<td>BYOD</td>
<td>#sketchEDnh Karen Desjadon Nicole Cassamassino</td>
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<tr>
<td>PreC07</td>
<td>MITI</td>
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<td>Chromebooks in the Primary Classroom Debra Rodd</td>
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<tr>
<td>PreC08</td>
<td>MITI</td>
<td></td>
<td>Everyone Can Create: Ignite Creativity with iPad for Early Learners (K-5) Matt Brooks</td>
</tr>
</tbody>
</table>

PreC09   *MITI *BYOD | STEAM Ahead & Coding Workshop – Powered by SAM Labs Suzanne Rickard |
PreC10   MITI | Student Voice, Authentic Audiences, & Original Publications Cynthia Merrill, Andrea Calvin |
PreC11   *MITI *BYOD | Lesson Design with OneNote AJ Herrmann |
PreC12   BYOD | Become a National Geographic Certified Educator Anastasia Cronin |
PreC13   *MITI *BYOD | Dashing Directions: Integrating Robotics into Social Studies Dana Foulds, Annie Proulx |
PreC14   *MITI *BYOD | Getting Started with 3D Printing Joanna Marcotte |
PreC15   MITI | Everyone Can Create: Ignite Creativity with iPad (6-12) Matt Brooks |

PreC16   *MITI *BYOD | STEAM PlayLab Chantal Duval, Julie Quesnel |
PreC17   BYOD | Blended Learning for Active Learners Matthew Joseph |
PreC18   *MITI *BYOD | Merge Technology with Handwritten Notes: Rocketbook Everlast Deb Boisvert Offered also in the morning |
PreC19   *MITI *BYOD | Chromebooks & Chrome Extensions to Support All Learners Jennifer Lowton |
PreC20   *MITI *BYOD | Digital Making: Raspberry Pi, Circuit Playground, & Makey Makey Joelle Henry, Tammy Andrews |
PreC21   MITI | Enhancing School Leadership with iPad Matt Brooks |

PreC09   *MITI *BYOD | STEAM Ahead & Coding Workshop – Powered by SAM Labs Suzanne Rickard |
PreC10   MITI | Student Voice, Authentic Audiences, & Original Publications Cynthia Merrill, Andrea Calvin |
PreC11   *MITI *BYOD | Lesson Design with OneNote AJ Herrmann |
PreC12   BYOD | Become a National Geographic Certified Educator Anastasia Cronin |
PreC13   *MITI *BYOD | Dashing Directions: Integrating Robotics into Social Studies Dana Foulds, Annie Proulx |
PreC14   *MITI *BYOD | Getting Started with 3D Printing Joanna Marcotte |
PreC15   MITI | Everyone Can Create: Ignite Creativity with iPad (6-12) Matt Brooks |

PreC16   *MITI *BYOD | STEAM PlayLab Chantal Duval, Julie Quesnel |
PreC17   BYOD | Blended Learning for Active Learners Matthew Joseph |
PreC18   *MITI *BYOD | Merge Technology with Handwritten Notes: Rocketbook Everlast Deb Boisvert Offered also in the morning |
PreC19   *MITI *BYOD | Chromebooks & Chrome Extensions to Support All Learners Jennifer Lowton |
PreC20   *MITI *BYOD | Digital Making: Raspberry Pi, Circuit Playground, & Makey Makey Joelle Henry, Tammy Andrews |
PreC21   MITI | Enhancing School Leadership with iPad Matt Brooks |
WORKSHOP DESCRIPTIONS MONDAY

**PRECO1 8:30am - 3:30pm**

**GIRLS IN STEAM: DRONES & ART**
Amanda Bastoni, CTE Director, Nashua Technology Center North & Erin Knoetig, Nashua SD

LEVEL: BEGINNER, GRADES: K - 12
COST: $130 PLUS THE COST OF THE DRONE KIT & BOOK

Join this session to explore curriculum, activities, insurance and funding suggestions, and more for educators interested in starting a drone class at their school. Dr. Amanda Bastoni, CTE Director of the Nashua Technology Center North Campus, and Erin Knoetig, Photography Teacher for more than 13 years, serve as your facilitators leading discussions and sharing lessons learned. Hear insights about drones and careers connected to drones during a breakout panel session with experts in the field including: Dr. Eric Frauwirth, Administrator of the Bureau of Career Development for the State of NH; James Brough, National Aviation and Space Education Program Manager at the FAA; and Justin Kates, Director of Emergency Management for the City of Nashua. Finally, meet students who participated in the drone program at Nashua and have the opportunity to speak with them about their experience. This session is hands-on, so come prepared to participate, fly drones, take notes, and ask questions. The cost of the session includes a RedPawz mini drone and the book “Drones in Education Let Your Students’ Imaginations Soar.” The specific drone model included (MITI format) and the exact cost will be posted in mid-September on the conference website at www.nhcmtc.org.

**PRECO2 8:30am - 3:30pm**

**FULL STEAM AHEAD WITH HUMMINGBIRD ROBOTICS**
Heidi Doyle, Librarian & Tech Integrator, Sunapee Central Elementary School

LEVEL: BEGINNER, GRADES: K - 8
COST: $130 PLUS THE COST OF THE ROBOTICS KIT

Join Heidi, librarian and tech integrator, as you spend the morning creating a creature out of recyclable materials and then bring it to life using a Hummingbird Robotics Kit. Learn how to utilize a drag and drop block program to add sound, lights, and motion to your creations. During the afternoon, discover how the presenter used these kits for a collaborative project with third grade classroom teachers and the art teacher in her Sunapee school. The afternoon also includes designing lesson plans to meet the needs of individual participants. This is a full day of coding, collaboration, creativity, and fun! The specific Hummingbird Robotics kit and accessories (MITI format) and the exact cost will be posted in mid-September on the conference website at www.nhcmtc.org.

**PRECO3 8:30am - 3:30pm**

**GOOGLE EDUCATOR LEVEL 1 CERTIFICATION BOOTCAMP**
Allison Mollica, USA Director, AppsEvents

LEVEL: INTERMEDIATE, GRADES: ALL
COST: $130 PLUS THE COST OF THE DEVICE

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. Complementing 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 compliments of AppsEvents is included so that you may take the exam for free as early as the next day. The specific Chromebook model (MITI format) and the exact cost will be posted in mid-September on the conference website at www.nhcmtc.org.

**PRECO4 8:30 - 11:30am**

**TEACHER ACADEMY USING MICROSOFT TEAMS**
AJ Herrmann, Business Sales Specialist, Microsoft

LEVEL: BEGINNER, GRADES: ALL
COST: $65 PLUS THE COST OF THE DEVICE

How do we support teachers and students who are challenged to learn in an increasingly collaborative and mobile environment? Microsoft Teams creates an ideal digital hub for teachers to deliver instruction, enhance learning, and interact in a rich and engaging online space. Participants engage in a series of immersive learning activities that build a strong understanding of how to use Microsoft Teams to improve instruction and meet the learning needs of their students. The Windows tablet model (MITI format) and the exact cost will be posted in mid-September on the conference website at www.nhcmtc.org.

**PRECO5 8:30 - 11:30am**

**MERGE TECHNOLOGY WITH HANDWRITTEN NOTES; ROCKETBOOK EVERLAST**
Deb Boisvert, Consultant, Google Certified Educator, NHSTE

LEVEL: BEGINNER, GRADES: ALL
REPEATED: PREC18
COST: $65 PLUS THE COST OF THE DEVICE/ACCESSORIES

Combine the joy, freedom, and portability of offline writing and sketching while being able to sync with a wide variety of cloud-based storage platforms including Google drive folders and Classroom. This is the last notebook you will ever need! Rocketbook Everlast is easily erased and can be reused over and over again. Explore classroom applications and PDF tools and tricks to leverage the use of your documents after uploading. The specific Rocketbook model and accessories (MITI format) and the exact cost will be posted in mid-September on the conference website at www.nhcmtc.org.

**PRECO6 8:30am - 3:30pm**

**COMMON CORE CURRICULUM FRAMEWORK: GETTING STARTED**
Dr. Eric Frauwirth, Administrator of the Bureau of Career Development for the State of NH; James Brough, National Aviation and Space Education Program Manager at the FAA; and Justin Kates, Director of Emergency Management for the City of Nashua. Finally, meet students who participated in the drone program at Nashua and have the opportunity to speak with them about their experience. This session is hands-on, so come prepared to participate, fly drones, take notes, and ask questions. The cost of the session includes a RedPawz mini drone and the book “Drones in Education Let Your Students’ Imaginations Soar.” The specific drone model included (MITI format) and the exact cost will be posted in mid-September on the conference website at www.nhcmtc.org.

ALL MITI workshop registrations require payment in full or PO prior to Monday, December 2nd.
Chromebooks. This workshop demonstrates how young students can independently use Chromebooks. Participants leave with a variety of resources to use in their own classroom. The specific Chromebook model (MITI format) and the exact cost will be posted in mid-September on the conference website at www.nhcmtc.org.

PRE07 8:30 - 11:30am
CHROMEBOOKS IN THE PRIMARY CLASSROOM
Debra Rodd, Digital Learning Specialist, Bedford SD
LEVEL: BEGINNER GRADERS: PRE-K
COST: $65 PLUS THE COST OF THE DEVICE

Learn about different ways Chromebooks can be used with students in grades K-2. Explore ideas for using G Suite and Google Classroom to differentiate in all curriculum areas as well as classroom management techniques for using Chromebooks whether you have 1:1 or shared Chromebooks. Whether you realize it or not that doodling was helping to keep you focused and even helping you remember what you were learning about. Consider your students . . . what are they doing during your lessons? Are you ready to change the way you and your students take notes? How about the way you and your students present information? Are you not sure how or where to start? If so, this session is for you! Join us to continue your journey with or become part of #sketchEdnh (a professional development opportunity centered around sketchnoting). In this hands on learning experience, work on sketching and creating your visual vocabulary while also exploring how to use sketchnoting in your classroom with students. Explore various tools to sketch and think of ways to digitally organize sketches. The specific Rocketbook model and accessories (MITI format) and the exact cost will be posted in mid-September on the conference website at www.nhcmtc.org.

Continental breakfast is included with full-day and morning workshops.

PRE09 12:30 - 3:30pm
STUDENT VOICE, AUTHENTIC AUDIENCES, & ORIGINAL PUBLICATIONS
Cynthia Merrill, Staff Developer & Speaker, LivBits & Andrea Calvin, The Reynolds Center TLC
LEVEL: BEGINNER GRADES: K-12
COST: $65 PLUS THE COST OF THE CLASSROOM LICENSE

Story is one of the most powerful technologies for causing learning and creating connections. Join Cynthia Merrill and Andrea Calvin as they provide a hands-on workshop focused on authentic storytelling and empowering student voice. Drawing from her days as a newspaper editor, Andrea shares stories from the classroom and ideas on how to get your students
published. Cynthia is a consultant, speaker, and teacher dedicated to strengthening literacy experiences for all students and the mother of our Tuesday keynote speaker, Olivia Van Ledtje @thelivbits. Cynthia works in diverse school communities throughout the US coaching, training, and encouraging administrators and teachers in their practices. Explore the power of Get Published! an online student publishing platform (K-12) hosted by Peter H. Reynolds (The Dot, Say Something, The Word Collector). Using Get Published!, Peter coaches your students through videos and activities, sharing real-world tips on developing characters and storylines, the value of collaboration and editing, and the joy of publishing books. During the session, participants explore ideas for the classroom and the tools to unlock their own publishing house - in their classroom. The registration fee for this MITI workshop includes a Get Published! classroom license (26 accounts). The exact cost will be posted in mid-September on the conference website at www.nhcmtc.org.

**PREC11 12:30 - 3:30pm**  
**LESSON DESIGN WITH ONENOTE**  
AJ Herrmann, Business Sales Specialist, Microsoft  
LEVEL: BEGINNER, GRADES: ALL  
COST: $65 PLUS THE COST OF THE DEVICE

Let’s get digital! See how you can use OneNote paired with the free tools provided within the Microsoft Community to digitize your lessons and artfully craft your way directly into 21st century learning. Learn how to create meaningful lesson springboards in the collaboration space of your OneNote Class Notebook, provide guided and leveled practice using the content library, and link your students directly to the web, with screen clippings, hyperlinks, and more. Take advantage of the free resources available when you become part of the Microsoft Community and expand your capabilities and educational offerings to your students. Experience the many colors of OneNote with the Draw tab where digital inking brings new dimensions to once basic assignments. Get inspired to digitize your class with OneNote! The specific Windows tablet (MITI format) and the exact cost will be posted in mid-September on the conference website at www.nhcmtc.org.

**PREC12 12:30 - 3:30pm**  
**BECOME A NATIONAL GEOGRAPHIC CERTIFIED EDUCATOR**  
Anastasia Cronin, Regional Director Educator Network, National Geographic Society  
LEVEL: BEGINNER, GRADES: ALL  
COST: $65

What does it take to transform kids into explorers? Become a Nat Geo Certified Educator to find out. Come embark on a journey with National Geographic and take part in our free Educator Certification Program. This professional learning opportunity supports pre-K through 12 formal and informal educators to become innovative leaders who teach students about the world, empowering them to succeed and to make it a better place. Benefits of certification include access to resources, mentorship, and leadership opportunities with National Geographic; connection to a community of like-minded educators; and professional recognition. During this workshop, complete Phase 1 of the certification process, diving into our Learning Framework, which covers the attitudes, skills, and knowledge areas that embody the attributes of an explorer. Discover a rich source of assets with a global and geographic perspective and learn how to effectively integrate those resources into their lessons. Improve upon your visual storytelling skills to build confidence in sharing more with your community about your students’ successes, as well as your own. Participants may choose to complete Phases 2 & 3 online, integrating relevant resources into their lessons. Courses run in the Winter, Spring, and Fall and are self paced. It takes educators approximately 20 hours to complete the course from start to finish. This workshop is offered in the BYOD format only.

**PREC13 12:30 - 3:30pm**  
**DASHING DIRECTIONS: INTEGRATING ROBOTICS INTO SOCIAL STUDIES**  
Dana Foulds, Tech Integrator & Annie Proulx, Broken Ground School  
LEVEL: BEGINNER, GRADES: K - 5  
COST: $65 PLUS THE COST OF THE DEVICE

Come discover how to integrate Dash robots into the elementary curriculum. Participants have a chance to explore Dash and use the robots to navigate through the state of New Hampshire. Join us for an interactive and exciting session to help bring Social Studies to life for your students. The specific Dash kit and accessories (MITI format) and the exact cost will be posted in mid-September on the conference website at www.nhcmtc.org.

**PREC14 12:30 - 3:30pm**  
**GETTING STARTED WITH 3D PRINTING**  
Joanna Marcotte, Computer Science Teacher, The Founders Academy  
LEVEL: BEGINNER, GRADES: K - 12  
COST: $65 PLUS THE COST OF THE PRINTER/ACCESSORIES

Have you ever wondered about getting started with 3D Printing? Hear some tips and tricks about design, maintenance, and development tools from students and staff at The Founders Academy. The specific printer model and accessories (MITI format) and the exact cost will be posted in mid-September on the conference website at www.nhcmtc.org.

Light refreshments are included with afternoon and evening workshops.
Monday Workshop Descriptions

**PRE15 12:30 - 3:30pm**
**EVERYONE CAN CREATE: IGNITE CREATIVITY WITH IPAD (6-12)**
Matt Brooks, Development Executive, Apple
LEVEL: ALL, GRADES: 6-12
COST: $380, BYOD COST $50

To succeed in today’s world and to shape tomorrow’s, students need to tap into their creative potential and learn to express themselves in new and innovative ways. Middle and high school educators are invited to join us to learn about Everyone Can Create, a program from Apple designed to help unleash the creative potential in every student through photography, video, music, and drawing with iPad. Experience engaging lessons that introduce fundamental skills and techniques in music and drawing using free apps available on iPad. 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. The specific iPad model and exact cost will be posted on the conference website in mid-September on the conference website at www.nhcmtc.org.

**PRE16 6:00 - 9:00pm**
**STEAM PLAYLAB**
Chantal Duval, Digital Learning Coach, Chichester Central School & Julie Quesnell, Pembroke Academy
LEVEL: BEGINNER, GRADES: ALL
COST: $65 PLUS THE COST OF THE STEAM RESOURCES

Play is often talked about as if it were a relief from serious learning. But for children play is serious learning. Play is really the work of childhood.- Fred Rogers. STEAM toys are becoming a huge part of the toy market and many toys are being developed for all age-levels to provide opportunities to explore STEAM. Learn about several of the new products out there that encourage learning through exploration and play.

Find our inner child and play with some of our own STEAM toys that can be used in classrooms in any subject area. These toys are tools in a child’s world and open opportunities for STEAM exploration and skill building. The specific STEAM resources and accessories (MITI format) and the exact cost will be posted in mid-September on the conference website at www.nhcmtc.org.

**PRE17 6:00 - 9:00pm**
**BLENDED LEARNING FOR ACTIVE LEARNERS**
Matthew Joseph, Director of Curriculum & Instruction, Leicester PS
LEVEL: INTERMEDIATE, GRADES: ALL
COST: $65

Explore strategies to support instruction that leads to active learners. One of the keys to academic achievement is active learning. According to research - personalized, collaborative, and connected learning experiences enhance student engagement, which in turn drives student performance. In its basic and simplest definition, blended learning is an instructional methodology. It is a teaching 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 interact with the same curriculum. Computers do not teach, Apps do not teach, TEACHERS teach. Digital learning is an instructional strategy that enhances learning and engages learners. It is important to know what tools we have and what they’re capable of providing to enhance student learning. Focus on blended learning tools that can increase engagement that educators can use for instruction. This workshop is offered in the BYOD format only.

**PRE18 6:00 - 9:00pm**
**MERGE TECHNOLOGY WITH HANDWRITTEN NOTES; ROCKETBOOK EVERLAST**
Deb Boisvert, Consultant, Google Certified Educator, NHSTE
LEVEL: BEGINNER, GRADES: ALL
REPEATED: PRECS
COST: $65 PLUS THE COST OF THE DEVICE/ACCESSORIES

Combine the joy, freedom, and portability of offline writing and sketching while being able to sync with a wide variety of cloud-based storage platforms including Google drive folders and Classroom. This is the last notebook you will ever need! Rocketbook Everlast is easily erased and can be reused over and over again. Explore classroom applications and PDF tools and tricks to leverage the use of your documents after uploading. The specific Rocketbook model and accessories (MITI format) and the exact cost will be posted in mid-September on the conference website at www.nhcmtc.org.

**PRE19 6:00 - 9:00pm**
**CHROMEBOOKS & CHROME EXTENSIONS TO SUPPORT ALL LEARNERS**
Jennifer Lowton, Director of Technology, SAU 61 Farmington
LEVEL: BEGINNER, GRADES: ALL, TECH DEPARTMENT
COST: $65 PLUS THE COST OF THE DEVICE

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 explore additions and take away some class lesson ideas. The specific Chromebook model (MITI format) and exact cost will be posted on the conference website in mid-September at www.nhcmtc.org.
MONDAY EVENING FREE PARENT & STUDENT FORUM
12/2/19 ~ 6:30 TO 8:00 pm

Join our Tuesday keynote speaker, 12-year-old Olivia Van Ledtje @theLivBits and her mom, Cynthia Merrill as they share five key ideas that matter for connected learners. Hear how Liv’s work as a “book activist” has gone global. Be inspired how Liv has come to know her place in the world through technology creation and connected learner opportunities. This mom and daughter interactive presentation will give you much to consider about YOUR child’s digital life. There will be time for Q&A and light refreshments will be served. Students in grades K-8 are encouraged to attend with their parent(s).

RSVP via the CMTC website in the fall.
## BYOD Workshops

**McAuliffe Presenters**

### TUESDAY, DECEMBER 3, 2019 ~ Day

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>8:00 - 9:00am</td>
<td>Empower the In Middle/High School Learner with a Personal Learning Backpack</td>
<td>Kathleen McClaskey, Diana Petshchauer</td>
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<tr>
<td>1 hour</td>
<td>Choose Your Own Adventure in Writing</td>
<td>Nicole Cassamassino, Kara Speaker</td>
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<tr>
<td>9:45 - 11:15am</td>
<td>DIY Digital Scavenger Hunts &amp; Breakouts</td>
<td>Susan Cavanaugh, Peter Olsen</td>
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<tr>
<td>1.5 hour</td>
<td>Building Coding Confidence with Dash &amp; Cue</td>
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<td>12:50 - 2:20pm</td>
<td>Redesign the Class</td>
<td>Edward Kissell</td>
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<td>1.5 hour</td>
<td>Breakout of Passive Learning! - Break Down Different Kinds of Breakouts</td>
<td>Christine Donoghue</td>
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### TUESDAY, DECEMBER 3, 2019 ~ Evening

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<tr>
<th>Time</th>
<th>Session</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>6:30 - 8:30pm</td>
<td>A Middle School Makeover</td>
<td>Theresa Schneiderheinze, Ian West</td>
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<tr>
<td>2 hour</td>
<td>Getting Started with 3D Printing</td>
<td>Joanna Marcotte</td>
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<tr>
<td>6:30 - 8:30pm</td>
<td>Coding with CodeSpark Foos: Programming with PreK through Grade 5</td>
<td>Chantal Duval</td>
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<tr>
<td>2 hour</td>
<td>Engage Students in Citizen Science with a BioBlitz &amp; iNaturalist App</td>
<td>Anastasia Cronin</td>
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<tr>
<td>6:30 - 8:30pm</td>
<td>Tools &amp; Tricks for Going Gradeless &amp; Becoming Feedback Focused</td>
<td>Nels Tooker</td>
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PLEASE NOTE: Pre-registration is REQUIRED for Tuesday EVENING BYOD Workshops ONLY

### WEDNESDAY, DECEMBER 4, 2019 ~ Day

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<tr>
<th>Time</th>
<th>Session</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>8:00 - 9:00m</td>
<td>Hyperdoc-in' Inquiry</td>
<td>Karen Desjadon, Susan Wakelin</td>
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<tr>
<td>1 hour</td>
<td>Google My Maps ~ Workhorse for Classroom Mapping</td>
<td>Deb Boisvert</td>
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<tr>
<td>9:45 - 11:15am</td>
<td>Project Lead the Way- Computer Science for Middle Schools</td>
<td>Stephanie Racine, Suzanne Snow</td>
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<td>1.5 hour</td>
<td>The Great Digital Escape: Inquiry &amp; Google Forms</td>
<td>Eric Bird, Aurora Merry</td>
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<tr>
<td>12:50 - 2:20pm</td>
<td>Digital Breakouts - A Virtual Escape Room</td>
<td>Denise Wood, Josh Smith</td>
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<tr>
<td>1.5 hour</td>
<td>Using Book Creator Across the Curriculum</td>
<td>Jill Schock</td>
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Bring Your Own Device means you provide the technology, we provide the learning.
This year CMTC offers a variety of engaging hands-on “Bring Your Own Device” workshops on Tuesday and Wednesday. 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 or Wednesday.

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.

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

B.Y.O.D. Bring your own device
<table>
<thead>
<tr>
<th>Session Title &amp; Presenter(s)</th>
<th>Content Areas</th>
<th>Grade Level</th>
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<tbody>
<tr>
<td><strong>CURRICULUM, INSTRUCTION, &amp; ASSESSMENT</strong></td>
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<tr>
<td>Book Bosses: Reading, Thinking, &amp; Creating with Tech</td>
<td>ELA, ICT, Creativity</td>
<td>ALL</td>
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<tr>
<td>Olivia Van Ledjte, Tuesday Keynote Speaker</td>
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<tr>
<td>Developing HS Computer Science for ALL Students</td>
<td>ICT, ENG, CS, High Tech Career Readiness</td>
<td>9 - 12</td>
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<td>Michael Thompson, Cisco Academy Instructor, Woodsville HS</td>
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<td>Improving Presentations: Pecha Kucha Style</td>
<td>SS, ICT, HUM</td>
<td>6 - 12</td>
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<tr>
<td>Cynthia Young, Social Studies Teacher &amp; Kai Dennett, Portsmouth HS</td>
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<td>Strengthening Literacy with iPad</td>
<td>EC, ELA, MA, SC, ICT, LIB</td>
<td>PreK - 5</td>
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<td>Matt Brooks, Development Executive, Apple</td>
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<td>Read &amp; Roll: Literacy Design Challenges Featuring Sphero Robots</td>
<td>ELA, LIB, CS</td>
<td>K - 12</td>
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<td>Laurie Williams, Librarian/Tech Integrationist &amp; Karen Cowles, Newbury Elementary School</td>
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<td>Remixing Formative Assessments With Tech: Paving a Path to Competency</td>
<td>ELA, ICT, HUM, PE, FACS, Health</td>
<td>9 - 12</td>
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<td>Jeanna Wagner, Instructional Coach, Pelham HS &amp; Krista Day, Pelham SD</td>
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<td>Bring Augmented Reality to Your Classroom with iPad</td>
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<td>Matt Brooks, Development Executive, Apple</td>
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<tr>
<td>Unlock the Internet ~ Creating Digital Breakouts: A Student’s Perspective</td>
<td>ELA, MA, SC, SS, WL, LIB, HUM</td>
<td>6 - 12</td>
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<td>Rachel Hopkins, School Librarian, SAU 57 &amp; Jessica Pereira, Salem HS</td>
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<td>Chris Lindsay, Digital Learning Specialist &amp; Barbara Mantere, North Reading PS</td>
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<td><strong>PERSONALIZED STUDENT/PROFESSIONAL LEARNING</strong></td>
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<td>Crafting Your Digital Identity with a Global Audience</td>
<td>CT, Digital Identity</td>
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<tr>
<td>Book Signing with Olivia ~ Our Tuesday Keynote</td>
<td>ELA, MA, ICT, HUM</td>
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<td>Olivia Van Ledjte, Tuesday Keynote &amp; Cynthia Merrill, LivBits</td>
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<tr>
<td>Pushing Yourself to Challenge Others</td>
<td>Professional Learning</td>
<td>ALL</td>
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<tr>
<td>Craig Sheil, Technology Integration Teacher &amp; Jessica Gilcreast, Bedford HS</td>
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<td>Free Web Tools to Individualize Math Instruction</td>
<td>MA</td>
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<td>Jane Pollard, EL Math Teacher, Manchester</td>
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<tr>
<td>Sketch to Stretch Creative Thinking&lt;br&gt;Karen Desjadon, Media Specialist, Londonderry SD &amp; Amy Downing, Londonderry HS</td>
<td>ALL</td>
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<tr>
<td>Fun with Forms! &lt;br&gt;Jenifer Hollander, Teacher Grade 5, Milford SD</td>
<td>EC, ELA, MA, SC, SS, WL, ICT, LIB, ENG, HUM, CS</td>
<td>ALL</td>
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<tr>
<td>Self-paced &amp; Personalized Learning With CodeHS&lt;br&gt;Tim Maki, Director of Technology, Tilton School</td>
<td>CS</td>
<td>6 - 12</td>
</tr>
<tr>
<td>Creating PD Opportunities to Meet the Needs of ALL Teachers&lt;br&gt;Rachel Kuberry, Assistive Technology Specialist &amp; Lisah Rhodes, Lexington PS</td>
<td>ELA, MA, SC, SS, WL, ICT</td>
<td>ALL</td>
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<tr>
<td>Show What You Know: Using Digital Storytelling to Encourage Student Voice&lt;br&gt;Andrea Calvin, The Reynolds Center TLC</td>
<td>ELA, ICT, HUM</td>
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**COLLABORATIVE LEADERSHIP**

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<tr>
<th>Session Title &amp; Presenter(s)</th>
<th>Content Areas</th>
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<tbody>
<tr>
<td>Covering Online School News: Collaborating with Your Principal&lt;br&gt;Jason Parent, Principal &amp; Mary DeWinkeleer, Londonderry HS</td>
<td>ELA, ICT</td>
<td>6 - 12</td>
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<tr>
<td>Lead Like a Librarian&lt;br&gt;Pam Harland, Faculty, Plymouth State University</td>
<td>LIB</td>
<td>ALL</td>
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<tr>
<td>Come &amp; Knock on My Door: Collaborative Practices in Schools&lt;br&gt;Matthew Joseph, Director of Curriculum &amp; Instruction, Leicester PS</td>
<td>Instruction</td>
<td>ALL</td>
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<tr>
<td>EdTech Coaching in Today’s Classrooms&lt;br&gt;Matthew Joseph, Director of Curriculum &amp; Instruction, Leicester PS</td>
<td>EC, ELA, MA, SC, SS, WL, LIB</td>
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**TECHNOLOGY & ROBUST INFRASTRUCTURE**

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<tr>
<th>Session Title &amp; Presenter(s)</th>
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<tbody>
<tr>
<td>Chromebooks in the 1:1 Environment: Google Console, APIs, &amp; Extensions&lt;br&gt;Chantal Duval, Digital Learning Coach &amp; Alex Libby, Chichester Central School</td>
<td>IT, Technology Infrastructure &amp; Digital Safety</td>
<td>ALL</td>
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<tr>
<td>Tips &amp; Strategies Going 1:1 (Chromebooks)&lt;br&gt;Sandy Blanc, Technology Coordinator, Exeter HS</td>
<td>IT, 1:1</td>
<td>6 - 12</td>
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**DATA & PRIVACY**

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<tr>
<th>Session Title &amp; Presenter(s)</th>
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<tbody>
<tr>
<td>Privacy in the Classroom: A Practical Approach&lt;br&gt;Nancy Rose, Director of Technology &amp; Library Media, Merrimack SD</td>
<td>ALL, Privacy &amp; Security</td>
<td>ALL</td>
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<tr>
<td>Update on NHCTO Data Privacy Efforts&lt;br&gt;Joshua Olstad, Director of Information Technology, Oyster River SD</td>
<td>ALL, Privacy &amp; Security</td>
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**BUDGET & RESOURCES**

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<th>Session Title &amp; Presenter(s)</th>
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<tr>
<td>E-Rate Update&lt;br&gt;Dan Riordan, President, On-Tech Consulting, Inc.</td>
<td>Technology Funding</td>
<td>IT Staff</td>
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**McAuliffe Presenters**

**Keynote Speakers**

**Spotlight Speakers**
## Session Title & Presenter(s) | Content Areas | Grade Level
--- | --- | ---
### CURRICULUM, INSTRUCTION, & ASSESSMENT
- **Reimagining Literacy Through Global Collaboration**<br>Pernille Ripp, Wednesday Keynote Speaker  | ELA, ICT | ALL
- **Teaching Media Literacy in an Era of Fake News**<br>Kerry Gallagher, Assistant Principal, Teaching & Learning, St. John’s Prep  | ICT, LIB | K - 12
- **What’s the Fuss about Jamboard?**<br>Craig Sheil, Technology Integration Teacher & Samantha O’Connor, Bedford HS  | ELA, MA, SC, SS, CS | 6 - 12
- **#GoogleAddict 4.0**<br>Craig Sheil, Technology Integration Teacher, Bedford HS & Kerri Lunn, Bedford SD  | ICT | ALL
- **Manage Classroom Workflow Using Google Classroom**<br>Edith Fogarty, Technology Integration Facilitator, Bradford Elementary School  | ELA, MA, SC, SS, WL, HUM, CS | K - 12
- **Energy Technologies in the Classroom**<br>Angie Krysiak, Energy Educator & Aubrey Nelson, NH Energy Education Project  | SC, ENG | K - 12
- **Fairy Tales, Folktales, & Myths in the K-3 Classroom**<br>Mary Kuechenmeister, Founder/President, Story Preservation Initiative  | EC, ELA | PreK - 5
- **Little Hands Learning Lab - Integrating Technology & STEM**<br>Lori Puzzo, Library Media Specialist, Merrimack SD & Cathy Cibotti, Reeds Ferry Elementary  | MA, SC, SS, ICT, LIB, ENG, CS | PreK - 5
- **Voice Assistants (Alexa/Google) for Learning? Panel Discussion**<br>Maureen Yoder, Professor, Lesley University & panel members  | ALL | ALL

### PERSONALIZED STUDENT/PROFESSIONAL LEARNING
- **Passionate Teachers**<br>Pernille Ripp, Wednesday Keynote Speaker  | Passion & Engagement | ALL
- **Digital Learning Mixtape: Transforming Teaching with Technology**<br>Pam Harland, Faculty, Plymouth State University  | CT, LIB | ALL
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<tr>
<td>Awesome Apps to Close the Gaps - Finding &amp; Using Effective Educational Apps</td>
<td>EC, MA</td>
<td>PreK - 3, ELL, SPED</td>
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<td>Libby Curran, Special Educator/Title 1 Interventionist, Reading Elementary School</td>
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<td>Discover the Learner Using the UDL Lens</td>
<td>ICT</td>
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<td>Kathleen McClaskey, Founder, Make Learning Personal</td>
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<td>Implementing 20% Time in the Middle School Curriculum</td>
<td>ELA, SS, WL, LIB</td>
<td>6 - 12</td>
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<td>Etienne Vallee, Librarian/Media Specialist &amp; Chip Nyhan, Moultonborough SD</td>
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<td>Using Podcasts to Amplify Student Voices</td>
<td>ALL</td>
<td>K - 12</td>
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<td>Nels Tooker, 5th &amp; 6th Grade Teacher &amp; Elizabeth Brown, Newington PS</td>
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<td>Project Based Learning: Explore the Path</td>
<td>ELA, MA, SC, SS, ICT</td>
<td>K - 8</td>
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<td>Nicole Cassamassino, Technology Integration Teacher &amp; Erin Kane, Bedford SD</td>
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<tr>
<td>Blogging &amp; Audience: Motivating Students to Write</td>
<td>EC, ELA, ICT</td>
<td>ALL</td>
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<td>Rachel Small, Teacher Librarian, Pine Glen Elementary School, Burlington PS</td>
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<tr>
<td>Digital Demand vs. Mindful Screen Time: Helping Students Find the Balance</td>
<td>ICT, Applicable across ALL content areas</td>
<td>6 - 12</td>
</tr>
<tr>
<td>Jeanna Wagner, Instructional Coach, Pelham HS &amp; Amber Murphy, Pelham SD</td>
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<td>Andrea Calvin, The Reynolds Center TLC</td>
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JOIN NEW ENGLAND EDUCATORS, AND STUDENTS, 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 eight 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.nhcmtc.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.

AGAIN FOR 2019, Teacher Showcases are highlighted on Tuesday AND Wednesday mornings. Likewise, Student Showcases will be highlighted on BOTH afternoons this year. EdTech Playgrounds will be featured on Tuesday and Wednesday in both morning and afternoon as space permits.

STUDENT SHOWCASES

Girls in STEAM: Drones & Art
Amanda Bastoni, CTE Director, Nashua Technology Center North & Erin Knoetig, Nashua SD

Supporting Interdisciplinary STEAM Projects through Digital Learning
Kathleen Dasho, Digital Learning Specialist, North Reading HS

STEAMing Birds of Prey
Heidi Doyle, Librarian & Tech Integrator, Sunapee Central Elementary School

TEACHER SHOWCASES

Mental Health in Schools: Supporting Students & Parents
Christine Ravesi-Weinstein, Assistant Principal, Milford HS & Mental Health Advocate, Running from Anxiety

EDTECH PLAYGROUNDS

Digital Making: Raspberry Pi, Circuit Playground, & Makey Makey
Joelle Henry, Computer Science Teacher, Salem HS & Tammy Andrews, Milford

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
Plymouth State University

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. Register for class before 1/6/20
5. Once registered for graduate credit you will receive an email from Plymouth with access to your course Moodle.
6. 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/

NHAA and NHSTE in partnership with NHSLMA and the NHCTO Council hosts its 33rd year of exploring the role of technology for transforming teaching and learning!

IMPORTANT REMINDERS

- **General registration** is located in the Salon Lobby this year. Check in, get your name badge, and head right to the Armory for breakfast and then to the Partner Pavilion (Pemigewasset & Piscataquog) for networking with our exhibitors if you arrive early.
- **Welcome and keynote** sessions do not begin until 11:20, head right to the first concurrent sessions that begin at 8:00am upon arrival. The keynote luncheons run from 11:20 - 12:50 each day.
- **Solution Partner 30-minute Presentations and RoundTable Discussions** are new for CMTC19. Three times each day from 9:00 - 9:30, 10:40 - 11:10, and 1:50 - 2:30 ~ check out pages 24-26 for presentations and roundtable topics submitted to date. Engage with our solution partners to solve your unique challenges.
- **Question or having issues with your technology?** Stop in at the IT Student Help Desk in the Salon Lobby.
- **All BYOD workshops** on Tuesday, and Wednesday (day and evening) are included in your conference registration fee – first come, first served! Evening BYOD ONLY require pre-registration.
- Tuesday & Wednesday ~ **dessert break** in the Armory along with networking with our Solution Partners in the Partner Pavilion from 1:40 - 2:30
- **At-a-Glance schedule and session descriptions** are ONLY available online. Visit www.nhcmtc.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 Armory.
- **EVERY AFTERNOON ~ Student STEAM Showcases** in the Armory.
- **EVERY DAY (AM and PM) ~ EdTech Playgrounds** in the Armory.
- 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 **#nhcmtc** on Twitter to share your thoughts and receive conference updates.
- Keep your eye on Facebook and Twitter to learn more about the 2019 **Solution Partner Engagement Activity** ~ another opportunity to win great prizes!
Join our solution partners for 30-minute presentations on the mezzanine level in Coolidge, Dartmouth, Frost, and Hawthorne. Presentations run from 9:00 - 9:30, 10:40 -1 1:10, and 1:50 - 2:20.

**Make Your Mark: Dot Day**
Draw a dot, sign it, frame it and put it on display in the FableVision Dot Day Gallery!
*Andrea Calvin, VP, Dir. of Communications/ Development, The Reynolds Center TLC*
**Audience:** K-12 educators, Tech Integrators

**Immersing Students in Interactive Learning ~ VR, AR & 3D Design!**
Join us to explore PLTW’s compelling, relevant and engaging curriculum and professional development. Learn how our activity-, project-, and problem-based (APB) instructional design centers on hands-on, real-world activities, projects, and problems. Help your students understand how the knowledge and skills they develop in the classroom may be applied in everyday life. Explore resources made available from Verizon, one of the PLTW partners, that allows educators to access to fun, FREE, interactive STEM activities introducing students to skills in virtual reality, augmented reality, 3D design, and more.
*Suzanne Snow, Director of School Engagement, Project Lead The Way (PLTW)*
**Audience:** K-12 educators, Tech Integrators

**Tricked into Thinking**
As technology becomes more and more of a factor in the middle school classroom, how do we optimize the effect of our computer usage? Online simulations provide a perfect venue for allowing students to explore concepts and deepen their content knowledge. Using Gizmos and the new interactive CASES from ExploreLearning, participants explore topics ranging from basic cell structure, population diversity, density and physics. Working through CASES, students have the opportunity to act like real scientists: conducting experiments, gathering data, making a diagnosis, and prescribing solutions for real world scenarios. ExploreLearning not only provides an obvious subject area connection, but its ease of use allows for teachers to horizontally enrich the curriculum while challenging their students to broaden their understanding of the science curriculum.
*Thom O’Brien, Senior Educational Consultant, ExploreLearning*
**Audience:** K-12 educators, Tech Integrators
Effective Digital Solutions for K-12 Challenges
Looking for ways to create efficiencies for your teachers, while optimizing proficiency and growth of students? Edmentum empowers you with the solutions needed to be more effective. We are committed to solving your challenges with flexible tools paired with the right support to optimize student success. Whether you are trying to solve for a specific building level challenge, or a district-wide initiative, this presentation sheds light to the resources and expertise Edmentum can offer when reviewing effective online programs.

David Hanzlik, NH Partnership Manager, Edmentum
Audience: K-12 educators, Tech Integrators, Technology Leadership, School/District Leadership

PERSONALIZED STUDENT/PROFESSIONAL LEARNING

Video In The Classroom
Join us for more ideas to incorporate video into your classroom, featuring the Padcaster!

Bob Ballard, President, Logisoft
Audience: K-12 educators, Tech Integrators, Library Media, Technology Leadership

COLLABORATIVE LEADERSHIP

Creativi-tea Break
Grab a cup of tea and sit back to watch one of FableVision’s signature Mission films. From the North Star, to He Was Me - this is your Creativi-tea break.

Andrea Calvin, VP, Dir. of Communications/Development, The Reynolds Center TLC
Audience: K-12 educators, Tech Integrators, Technology Leadership

TECHNOLOGY & ROBUST INFRASTRUCTURE

NH Districts Present ~ Single Sign On, Rostering, & Account Provisioning!
Hear how Lebanon, Interlake, and Merrimack school districts are using ClassLink for single sign-on, usage analytics, and Rostering. Explore how ClassLink has transformed meaningful access to digital learning resources and internal business tools.

Bob Chappell, VP, Instructional Technology, ClassLink


Wireless as a Service, an E-rate Eligible Solution
IT is tough. IT for education can be even tougher. When your WiFi network is responsible for keeping an entire campus connected, from dorm rooms to classrooms, downtime isn’t an option. You are managing expectations and user experience for thousands of people. On top of the same multiple device management, BYOD issues, and security concerns faced by any enterprise, education IT staff are faced with the very specific technical and regulatory demands of a K-12 environment. Every day, organizations like yours add more wireless devices to support, E-learning, Virtual Reality, Security, PoS and more. Even the smallest WiFi issue can become a huge headache for your most critical processes if you lack visibility into the problem and do not have the expertise in house. WCA discusses how school districts can deliver worldclass wireless infrastructure in partnership with WCA all eligible for E-Rate funding.

Dean Leclerc, Director of Engineering, Whalley Computer Associates

Audience: Technology Leadership, School/District Leadership

BUDGET & RESOURCES

Discover Solutions to Control Your 1:1 Spending
This session will share industry best practices on planning your 1to1 spend. In addition, attendees will discover ways to better control the expense of maintaining their technology.

Eric Ogden, Director of Marketing, Trinity3 Technology

Audience: Library Media, Technology Leadership

USE OF SPACE & TIME

Get to the point. Efficiency matters!
Top 10 ways Alma will save you time.

Anna Logan, Directors of Sales Operations, Alma
Audience: K-12 educators, Tech Integrators, Technology Leadership, School/District Leadership

Check the website, online planner, and mobile app throughout the fall for the full schedule of dates, times and locations.
Join our solution partners for 30-minute RoundTable Discussions in the Armory. Our solution partners look forward to you sharing your challenges with them and seeking creative solutions together. Presentations run from 9:00 - 9:30, 10:40 - 11:10, and 1:50 - 2:20.

**CURRICULUM, INSTRUCTION, & ASSESSMENT**

**Building In-Demand, Transportable Skills Across PreK-12**
What programs or learning experiences does your school or district have in place to prepare students with the knowledge and skills that they need today and in the future?
Suzanne Snow, Director of School Engagement, Project Lead The Way (PLTW)
**Audience:** K-12 educators, Tech Integrators, Library Media, School/District Leadership

**Using Classroom Audio to Facilitate Small Group Instruction**
As instructional methodologies move from whole class to small group, what are some of the challenges confronting educators and can technology facilitate success in this area?
Thomas Gilmartin, Territory Manager, Lightspeed Technologies
**Audience:** K-12 educators, Tech Integrators, Technology Leadership, School/District Leadership

**Integrating STEM/STEAM into your Classroom Curriculum**
What challenges are you facing in bringing STEAM initiatives into your school?
Suzanne Rickard, Education Consultant, SAM Labs
**Audience:** K-12 educators, Tech Integrators, Library Media, Technology Leadership, School/District Leadership

**Digital Information Literacy & Research Skills**
Are your students graduating with college-ready research skills, and if not, what is standing in their way?
Tammy Ross, Senior Marketing Manager, School Databases, EBSCO
**Audience:** K-12 educators, Tech Integrators, Library Media

**Computational Thinking Across the Curriculum**
How do you successfully integrate computational thinking across the K-8 curriculum?
Lindsay DeLong, Northeast Education Sales Manager, Sphero EDU
**Audience:** K-12 educators, Tech Integrators, Library Media, Technology Leadership, School/District Leadership, Curriculum Directors

**PERSONALIZED STUDENT/PROFESSIONAL LEARNING**

**Visual Learning With IdeaMapper**
Are you missing Inspiration? Check out Idea Mapper
Cassie Ballard, Marketing Coordinator, Logisoft
**Audience:** K-12 educators, Library Media

**Teachers Deserve Data-driven Instruction Too!**
Join this conversation about how you can retain more teachers with personalized professional learning experiences.
Ilya Zeldin, CEO, 2gnoMe
**Audience:** Technology Leadership, School/District Leadership

**COMMUNITY PARTNERSHIPS**

**Professional Development Opportunities for Rural Educators Using Social Media**
How do rural educators use social media to engage in professional learning beyond CMTC?
Lori Armstrong, Assistant Director of Graduate Enrollment, Plymouth State University
**Audience:** K-12 educators, Tech Integrators, Library Media, Technology Leadership, School/District Leadership

**TECHNOLOGY & ROBUST INFRASTRUCTURE**

**Premise PBX or Hosted ~ What makes sense?**
What are the long-term TCO, features, and reliability considerations?
Andy Hunt, Sales Engineer, First Choice Communication Services Inc.
**Audience:** Tech Integrators, Technology Leadership, School/District Leadership

**Cloud Consciousness: Are You Using the Cloud to its Fullest Potential?**
With all the recent advancements in cloud backup, recovery, and security, how can you use the cloud to its fullest potential in saving your time, money, and peace of mind?
Rob Williams, Director of Product Marketing, FirstLight
**Audience:** Technology Leadership

**USE OF SPACE & TIME**

**Recognizing & Rectifying Workflow Inefficiencies**
Where are we wasting time, and how can we fix it?
Theresa Schneiderheinze, Regional Sales Director, Alma
**Audience:** K-12 educators, Tech Integrators, Technology Leadership, School/District Leadership
CMTC is excited to announce that we continue to enhance your conference experience with our solution providers. The Partner Pavilion has moved to Pemigewasset and Piscataquog and our solution partners are offering both 30-minute Presentations in the mezzanine level rooms and RoundTable discussions in the Armory three times each day! There are lots of new ways to interact and engage with our exhibitors.

- Explore the new SOLUTION PARTNERS ENGAGEMENT opportunities three times each day from 9:00 - 9:30, 10:40 - 11:10, and 1:50 - 2:30. Attend a 30-minute Presentation or participate in a 30-minute RoundTable discussion. Engage with our solution partners to help solve your unique challenges. Discuss with industry leaders how you can reimagine and reinvent your curriculum, classroom, or library space physically, digitally, and pedagogically!

- Check out the COLLABORATORY MAKERSPACE each day (T-W) in Contoocook, its new location near the Salon Lobby. 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. 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!

- Each day there will be a TEACHER SHOWCASE in the morning from 9:00 - 10:30 and a STUDENT STE(AM) SHOWCASE in the afternoon from 1:30 - 3:00 in the Armory.

- Hands-on activities are once again planned in the EDTECH PLAYGROUNDS interactive space located in the Armory both morning (9:00 - 10:30) and the afternoon (1:30 - 3:00) each day (T-W). Stay and play as long as you want. Join educators 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!

“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.”
Join those attending the 2019 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 21, 2019!

**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 $1,440 to $2,160 per team.

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 $360 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.nhcmtc.org. The deadline to submit the completed application is **MONDAY, OCTOBER 21.**
REGISTRATION OPTIONS & INFORMATION

VISIT THE CMTC WEBSITE TO REGISTER: WWW.NHCMTC.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: paula@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

FACTORIES 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.

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.

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.

CANCELLATIONS Cancellations MUST BE IN WRITING and received prior to Thursday, November 7. Registration fees (either general or PreConference workshops) are non-refundable and subject to regular billing after November 7. Please send cancellation requests to the NHSAA office: 46 Donovan Street, Suite 3, Concord, NH 03301 or paula@nhsaa.org.

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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.

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HOTEL ACCOMMODATIONS See hotel information on page 31. 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 8 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 9, 2019. Please fax requests to Kymra at 603-225-3225 or email to kymra@nhsaa.org. Unfortunately, requests for special services and accommodations received after 10/9/19 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 32 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
- New for 2019, both keynotes will be presented during the keynote luncheon in the Armory from 11:20 to 12:50. See pages 5 and 7 for more information on the Tuesday and Wednesday keynote speakers.
- We are able to offer a sit-down or box lunch – both with a vegetarian option – on Tuesday and Wednesday. 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 permitted to eat in theater seating in the back of the Armory during the keynote luncheon.
- If personal situations present special dietary restrictions, please include them with your registration and we will do our best to accommodate your needs.

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 November 6.
- Tuesday evening BYOD workshops REQUIRE pre-registration AND Conference Registration for at least one day of the conference (Tuesday, or Wednesday). 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.

CONFERENCE REGISTRATION RATES

<table>
<thead>
<tr>
<th></th>
<th>General Registration</th>
<th>NHSTE Premium Member Registration</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-days</td>
<td>$340</td>
<td>$330</td>
</tr>
<tr>
<td>Tuesday only</td>
<td>$180</td>
<td>$175</td>
</tr>
<tr>
<td>Wednesday only</td>
<td>$180</td>
<td>$175</td>
</tr>
</tbody>
</table>

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 7th. ALL registration fees (general or PreConference work shops) are non-refundable and subject to regular billing after November 7th. Please direct any questions to the staff at NHSAA:
Phone: 603-225-3230
Email: paula@nhsaa.org
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, December 1, 2019 – Wednesday 3, 2019. Reservation Deadline: Friday, November 8, 2019. 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.nhcmtc.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 8, 2019 may be subject to the hotel’s prevailing rates.

CMTC 2019 CLOSING SESSION
PLEASE JOIN US AT THE CLOSING SESSION & RAFFLE
REFRESHMENTS SERVED
You must be Present to win!

WEDNESDAY 3:20 PM DEC 4TH

You could even win a CMTC 2020 conference registration

ISTE'20
ANAHEIM
JUNE 28 - JULY 1
SAVE MONEY  Get 5-10% off NHSTE professional learning events and the CMTC 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)
- Digital Learning Specialist RoundTables
- Tech Teacher SIG integration workshops
- 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.

FOR 2019  Individual NHSTE Premium Membership and CMTC19 Registration Bundle Pack for $190. Save $10 on NHSTE Premium Membership ($25) and 1 one-day registration at CMTC ($175) ~ available NOW on the NHSTE website at http://nhste.memberlodge.com/page-663005.

K-12 SCHOOL DISTRICT BUNDLE PACKS
- 5-Pack for $1,022 Save 5% on 5 NHSTE event coupons and 5 one-day registrations at CMTC
- 10-Pack for $2,000: Save 7% on 10 NHSTE event coupons and 10 one-day registrations at CMTC
- 20-Pack for $3,870: Save 10% on 20 NHSTE event coupons and 20 one-day registrations at CMTC

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.
The CMTC Steering Committee wants to thank all our sponsors and solution partners committed to supporting our 33rd 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.nhcmtc.org – for the most up-to-date list of our solution partners registered for CMTC 2019.
We would like to give a special thank you to our Platinum Sponsor.