



Northbridge Public Schools

Northbridge School Committee

87 Linwood Avenue, Whitinsville, Massachusetts 01588 (508) 234-8156 FAX (508) 234-8469 www.nps.org

Michael LeBrasseur, Chairperson, mlebrasseur@nps.org, Joseph Strazzulla, Vice-Chairperson,
Michael Clements, Kate Tracy, Randi Zanca

Northbridge Public Schools School Committee Meeting Tuesday, March 14, 2017 7:00 PM Northbridge High School Media Center

- I. Regular Session Call to Order (7:00 PM)
- II. Attendance
- III. Pledge of Allegiance
- IV. Statement of Audio and Video Recording
- V. Statement of Mission
- VI. Public Comment (7:05)
- VII. Student Representative Report (7:10)
- VIII. Presentation (7:15)
 - a. NASA ICED Students
 - b. Carissa Letendre - Blackstone Valley Youth Leadership Academy
- IX. Consent Agenda (7:40)
 - a. School Committee Meeting Minutes from 7PM, February 28, 2017
 - b. Warrant 37-36s 3/2/2017 \$395,202.40
- X. Action (7:43)
 - a. Field Trip – Overnight, Out-of- State Trip for NASA ICED
- II. Discussion (7:50)
 - a. Line Item Transfers
 - b. FY18 Budget
 - c. Review of SC Goals
 - d. MSBA Statements of Interest for 2017
- XI. School Committee Individual Comments (8:20)
- XII. Informational
 - a. Celebration of Learning - 2017

- b. Mass Life Sciences Grant for Northbridge High School
- XIII. Motion to meet in executive session pursuant to Massachusetts General Laws chapter 30A section 21(a) for the following purposes:
 - a. Purpose (2) to conduct collective bargaining with the NTA, specifically to hear the NTA Jones grievance; and
 - b. Purpose (3) to discuss strategy with respect to collective bargaining, specifically to deliberate and determine a response to the NTA Jones grievance not to return to open session.
- XIV. Adjournment

community service project

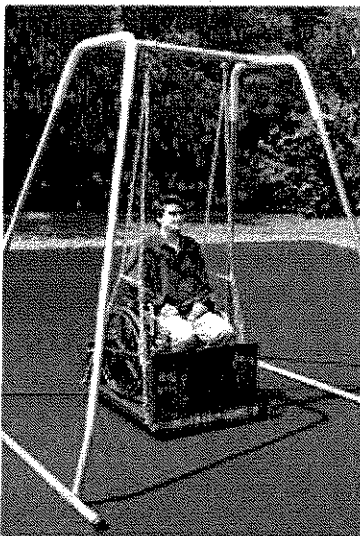
1 message

Carissa Letendre <crletendre@student.nps.org>
To: Catherine Stickney <cstickney@nps.org>

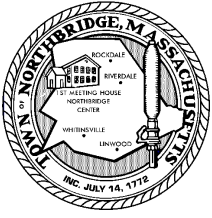
Fri, Mar 3, 2017 at 10:54 AM

Dear Dr Stickney,

I am a sophomore in Northbridge High school, and part of The Blackstone Valley Youth Leadership Academy. The Blackstone Valley Youth Leadership Academy requires participants to perform a community service project. I would like to add a wheelchair accessible swing to both elementary school playgrounds (Northbridge Elementary School, and Balmer School). Before I begin fundraising, I would like permission to install the swings. I would also like to know if any permits would be needed to install the swings. My guidance counselor, Mrs Hubbell informed me that you would be the best person to ask. I will attach a photo of the swings I would like to install. Thank You for taking the time to read my email.



Sincerely,
Carissa Letendre



Northbridge Public Schools

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Michael LeBrasseur, Chairperson, mlebrasseur@nps.org, Joseph Strazzulla, Vice-Chairperson,
Michael Clements, Kate Tracy, Randi Zanca

Northbridge Public Schools School Committee Meeting Minutes Tuesday, February 28, 2017 7:00 PM Northbridge High School Media Center

I. Call to Order (7:08)

II. Attendance

Michael Clements	Absent
Mike LeBrasseur	Absent
Joseph Strazzulla	Present
Kate Tracy	Present
Randi Zanca	Present

Also in attendance were Superintendent Catherine Stickney and Business Manager Melissa Walker.

III. Pledge of Allegiance

IV. Statement of Audio and Video Recording

V. Statement of Mission

VI. Public Comment:

Jennifer Rice- Middle School Booster Club presented a check in the amount of \$5,375.00 to fund all MS Spring Sports.

The motion was made by Kate Tracy to accept a check from the MS Boosters in the amount of \$5,375.00 to fund all MS Spring Sports. The motion was seconded by Randi Zanca. The vote was taken by roll call vote and the following votes were recorded:

Michael Clements	Absent
------------------	--------

Mike LeBrasseur Absent

Joseph Strazzulla Yes

Kate Tracy Yes

Randi Zanca Yes

3 members having voted in the affirmative

0 members having voted in the negative

The motion was accepted with a roll call vote of 3-0.

VII. Presentation

Melissa Walker and Catherine Stickney presented the Superintendent's Proposed FY2018 Budget. They discussed Mission and Goals, FY18 Budget Process, Budget Recap, FY2018 Level Services Operating Budget, FY18 Expense Drivers, Prioritized List of Strategic Additions, FY18 Revenue, Revolver Projections, Budget Gap, Closing the Gap and Should an Override be considered.

VIII. Budget Public Comment

Ken Picotte- Son in the Middle School- He had questions regarding Special Education and the Special Education Budget.

Melissa Walker stated that the deadline to add an article to the May Town Warrant is March 4th. Melissa stated that if we want to consider an override article we should put it on the May Town Warrant. Melissa also stated that \$100,000 of capital expenses can be removed from the recommended operating budget and requested at the May Town Meeting in the form of a capital article.

The motion was made by Randi Zanca to move the Override Article and the Capital Expenditures Article to an action item. The motion was seconded by Kate Tracy. The vote was taken by roll call vote and the following votes were recorded:

Michael Clements Absent

Mike LeBrasseur Absent

Joseph Strazzulla Yes

Kate Tracy Yes

Randi Zanca Yes

3 members having voted in the affirmative

0 members having voted in the negative

The motion was accepted with a roll call vote of 3-0.

IX. Consent Agenda

a. School Committee Regular Meeting Minutes from 7:00PM on February 14, 2017

b. Warrant 37-32s 02/02/17 \$214,448.05

The motion was made by Kate Tracy to accept the consent agenda as presented. The motion was seconded by Randi Zanca. The vote was taken by roll call vote and the following votes were recorded:

Michael Clements Absent

Mike LeBrasseur Absent

Joseph Strazzulla Yes

Kate Tracy Yes

Randi Zanca Yes

3 members having voted in the affirmative

0 members having voted in the negative

The motion was accepted with a roll call vote of 3-0.

X. Action items:

a. Superintendent's Performance Goals

The motion was made by Kate Tracy to approve the Superintendent's Performance Goals. The motion was seconded by Randi Zanca. The vote was taken by roll call vote and the following votes were recorded:

Michael Clements Absent

Mike LeBrasseur Absent

Joseph Strazzulla Yes

Kate Tracy Yes

Randi Zanca Yes

3 members having voted in the affirmative

0 members having voted in the negative

The motion was accepted with a roll call vote of 3-0

b. 2017-2018 Program of Studies for Northbridge High School

The motion was made by Kate Tracy to approve the 2017-2018 Program of Studies for Northbridge High School. The motion was seconded by Randi Zanca. The vote was taken by roll call vote and the following votes were recorded:

Michael Clements	Absent
Mike LeBrasseur	Absent
Joseph Strazzulla	Yes
Kate Tracy	Yes
Randi Zanca	Yes

3 members having voted in the affirmative

0 members having voted in the negative

The motion was accepted with a roll call vote of 3-0

c. Appointment to Screening Committee for Town Manager

The motion was made by Randi Zanca to appoint Melissa Walker to the Screening Committee for Town Manager. The motion was seconded by Kate Tracy. The vote was taken by roll call vote and the following votes were recorded:

Michael Clements	Absent
Mike LeBrasseur	Absent
Joseph Strazzulla	Yes
Kate Tracy	Yes
Randi Zanca	Yes

3 members having voted in the affirmative

0 members having voted in the negative

The motion was accepted with a roll call vote of 3-0

d. Appointment to the Building Planning Construction Committee

The motion was made by Kate Tracy to appoint Michael LeBrasseur to the Building Planning Construction Committee. The motion was seconded by Randi Zanca. The vote was taken by roll call vote and the following votes were recorded:

Michael Clements	Absent
Mike LeBrasseur	Absent
Joseph Strazzulla	Yes
Kate Tracy	Yes

James Gorman proposed an out of state field trip to NASA in Langley, Virginia. The trip will take place from March 22, 2017 to March 25, 2017. There will be about 24 students and 2 chaperones. This will be an action item on the next agenda.

XII. School Committee Individual Comments

Joseph Strazzulla- We are headed into a difficult process which includes a discussion of an override. We need to have the community engaged in the discussion.

XIII. Adjournment 7:57

- I. The motion was made by Kate Tracy to move into Executive Session pursuant to Massachusetts General Laws chapter 30A section 21(a) for the following purposes:
 - a. Purpose (2) to conduct collective bargaining with the AFL-CIO, STATE COUNCIL 93, LOCAL 1709, Unit C - Custodial, specifically to hear the Custodial Boucher grievance; and
 - b. Purpose (3) to discuss strategy with respect to collective bargaining, specifically to deliberate and determine a response to the Custodial Boucher grievance not to Reconvene in Open Session

Michael Clements	Absent
Mike LeBrasseur	Absent
Joseph Strazzulla	Yes
Kate Tracy	Yes
Randi Zanca	Yes

3 members having voted in the affirmative

0 members having voted in the negative

The motion was accepted with a roll call vote of 3-0.



Catherine Stickney <cstickney@nps.org>

Fwd: NASA Draft Agenda & Cost

1 message

James Gorman <jgorman@nps.org>

Thu, Mar 9, 2017 at 2:00 PM

To: Catherine Stickney <cstickney@nps.org>

Cc: Amy Allen-Magnan <amckinstry@nps.org>, William Bishop <wbishop@nps.org>, Patrick Rossi <prossi@nps.org>

FYI

----- Forwarded message -----

From: James Gorman <jgorman@nps.org>

Date: Thu, Mar 9, 2017 at 1:52 PM

Subject: NASA Draft Agenda & Cost

To: "jgorman@nps.org" <jgorman@nps.org>

To NASA Langley Field Trip attendees and Parents/Guardians:

I received the official invite from NASA Langley this morning. It is attached below. We have rooms booked at the Red Roof Inn (196 Ballard Court, Virginia Beach, VA 23462) which provides breakfast and has a pool. We have 3 student rooms reserved so there will be 3-4 students per room. It is about 30 minutes from NASA Langley Research Center. The Marra family has donated their 12 passenger RV for us to travel in and they are paying for all the transportation costs. This saved us over \$7000! The Superintendent is working out the details with them. Mr. Marra will be chaperoning the trip as well. **The cost of the trip is \$170** which includes the lodging, travel, museum tickets and movie theater ticket. Food is on their own. The money will be due Friday, March 17th. Checks can be made out to James Gorman. Below is the participant list as well as a Draft Trip Agenda for the trip. Their names have been provided to NASA fso that their security badges will be ready when we arrive.

Chaperones:

- James John Gorman (NHS teacher)
- Robert Leander Marra - parent

NHS Students:

1. James Matthew Ciras
2. Devon Michael Foster
3. Dylan Robert Marra
4. Joshua George VanBatenburg
5. Marc Terrence LeBlanc
6. Jason Michael Hardina
7. Alex Jeffrey Chase
8. Christopher Thomas Brouwer
9. Alfred James Gagner

Draft NASA ICED 2017 Agenda

Wednesday, March 22nd

- Depart NHS for VA @ 4 AM (~550 mile journey/ ~10 hr drive time)
- Check into Red Roof @ 196 Ballard Court, Virginia Beach (Virginia), VA 23462
- Movie theater visit for some relaxation

Thursday, March 23rd

- Morning: NASA ICED Epic Challenge Student Exposition (students are presenting between 9 and 10 AM)
- Afternoon: student tours of NASA Langley Research Center & Teacher Workshop

Friday, March 24th

- Visit Virginia Air & Space Museum
- probable educational program: Mars Colony**

- Visit to Virginia Beach board walk

Saturday, March 25th

- Depart VA for NHS - On the way there will be the possibility of stopping in Washington DC to see the monuments.
- Arrive home in the evening.

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James J. Gorman
Science Teacher
Northbridge High School
508-234-6221 x 2325



Follow me on Twitter @MrGorman1

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James J. Gorman
Science Teacher
Northbridge High School
508-234-6221 x 2325



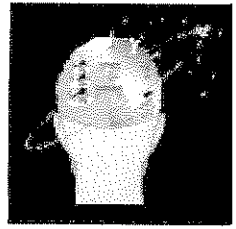
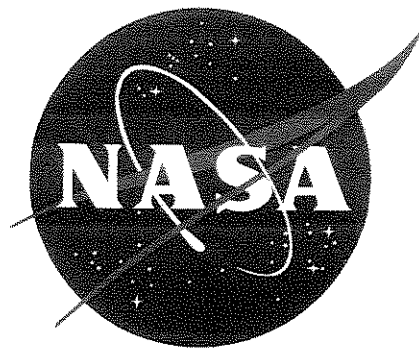
Follow me on Twitter @MrGorman1

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ICED Educator Workshop 2017 Announcement-Flyer rev 1.pdf
3445K



The Epic Challenge Program and the Future of Learning

Student Exhibition & Educator
Workshop

NASA Langley Research Center
Hampton, Virginia
March 23, 2017



Welcome!

You are cordially invited to participate in an educational workshop we are hosting at NASA's Langley Research Center on March 23rd, 2017. We will be showcasing some of the results of the NASA Epic Challenge Program and the Innovative Conceptual Engineering Design (ICED) methodology which we developed to infuse creativity and innovation into the engineering design process and apply it to conceive solutions to the complex, engineering challenges. Students, educators, and faculty from high schools in Virginia, Massachusetts, New Jersey, and Finland will exhibit their experiences and share their ideas on: pedagogy, curriculum development, learning dynamics, and student assessment. The workshop is open to the public and will be broadcast live for those who cannot attend and wish to participate virtually (<https://dmv.cso.nasa.gov/flex.html?roomdirect.html&key=WST6bna6MQ9I2WpPkFzWwJrN3U>).

Arrival and Badging:

All visitors will arrive at the NASA Langley Badge and Pass Office, Building 1308, at approximately 7:30 AM where you will receive your badge and one-day pass to the day's event. Please make sure you have notified Ms. Tamika Coleman (tamika.coleman@nasa.gov , 757-864-1429) of your intent to attend and provide her with your required information to ensure your badges will be ready for pick up. Closest parking for the workshop is adjacent to building 1195 (see map below). Coffee and refreshments will be provided in the primary meeting room in building 2102 (Rooms Reid I) and the agenda for the workshop is provided below.

Directions and Map of Facilities (NASA LaRC):

All visitors will arrive at the NASA Langley Badge and Pass Office, Building 1308, at approximately 7:30 AM where you will receive your badge and one-day pass to the day's event.

From Newport News-Williamsburg International Airport

Depart airport toward Bland Blvd
Turn left onto SR-143 East / Jefferson Ave
Take ramp right for I-64 East toward Norfolk / Hampton
At Exit 261B, take ramp right and follow signs for Hampton Roads Center Pkwy
Take ramp right and follow signs for Magruder Blvd / SR-134
Turn left onto SR-134 North / Magruder Blvd
Take ramp right for SR-172 North / Commander Shepard Blvd toward NASA / LAFB
Turn right onto Langley Blvd to LaRC main entrance

From Norfolk International Airport

Depart airport onto Norview Ave
Continue on SR-247 / Norview Ave
Take ramp right for I-64 West / Hampton Roads Beltway toward Richmond / Hampton At Exit 262B, take ramp right for SR-134 North / Magruder Blvd toward Poquoson / NASA
Take ramp right for SR-172 North / Commander Shepard Blvd toward NASA / LAFB
Turn right onto Langley Blvd to LaRC main entrance

ICED Epic Challenge Program:

Innovative Conceptual Engineering Design (ICED) is a proposed methodology for infusing creative problem solving and innovation within a team-oriented, problem-based learning environment. Implementation of the ICED methodology in this specific program attempts to solve several critical problems facing science, technology, engineering, and math (STEM) education and STEM-related careers in the US such as: the decline in enrollment and achievement in STEM degrees and careers and the early attrition of undergraduate students from STEM programs of study. The ICED program is an integrated approach to teaching basic engineering concepts and problem solving techniques focused on solving real-world, epic challenges facing society. These complex, multidisciplinary challenges provide the inspiration and integrated curriculum for multiple years of study.

The ICED methodology is based on the creation of psychologically-safe virtual and physical environments to solve real-world engineering problems. Throughout this process, students are encouraged to explore, experiment, fail, discover, and learn. It is a program where critical thinking and the questioning of ideas, concepts and even “established” facts and theories is celebrated. The methodology draws upon the teaming of very *diverse* groups of students, engineers, scientists, designers, artists, etc. to explore an open-ended design space and exercise the analytical/logical side of their brain (the left hemisphere) and associated skills as well as the artistic/creative/innovative right hemisphere to conceive and *develop* innovative solutions.

As mentioned earlier, the ICED methodology focuses on the very early “conceptual design” phase of the design process. This allows rules regarding the level of rigor involved in the analysis, design, and test phases of the development cycle to be relaxed in order to intelligently and rapidly conceive, prototype, evaluate and mature as many ideas as possible. This consequently allows for potential failure mechanisms to be identified and addressed early in the design process. The idea for teaching and utilizing this methodology for project-based learning and STEM outreach was inspired by work to identify the cause of the Space Shuttle Columbia accident, and to develop technologies to predict and repair critical damage to the vehicle in the event of a subsequent debris strike prior to landing. Ideas to repair a damaged wing leading edge were rapidly developed and matured using this methodology and flown on the Return-to-Flight Space Shuttle mission following the Columbia tragedy (STS-114) and all subsequent Shuttle missions. Student teams working on one such epic challenge, how to safely land a space capsule on land, successfully analyzed, designed, fabricated and tested a feasible solution which saved considerable mass and significantly increased on-orbit habitable volume. A problem which NASA had been trying to solve for over 50 years!

For more information regarding ICED and the Epic Challenge Program, please see links below:

Link to Epic Challenge Program Video: <https://vimeo.com/110187381>

Link to Epic Challenge Program Papers::

https://drive.google.com/drive/folders/0B84i3cJ_nNa0RniCMFh1YW1rTUE?usp=sharing

Link to Event Info: https://drive.google.com/folderview?id=0B84i3cJ_nNa0M3JG60stNDRJR28&usp=sharin

Agenda

The day will begin with a short introduction and brief description and history of the Epic Challenge Program and the ICED methodology. This will be followed by student and educator presentations of this year's program beginning with our newest university and high-school partners from Finland and followed by our partnering university, Virginia Tech and followed by high schools in New Jersey (Bergen Academies and Moorestown HS) and Massachusetts (Northbridge HS). Epic Challenge educators will discuss curriculum design, course content, and student expectations while visiting students will meet a tour guide and walk to several nearby facilities conducting research on space exploration. We will select our lunch in the NASA Cafeteria (B2101) and meet at Noon in a reserved room of the cafeteria (the NACA Room). Following lunch, students will get on a bus and tour several more facilities while educators will continue discussions on education and future plans for next year's Epic Challenge Program and our vision for the future of learning and education.

NASA ICED Epic Challenge Educator Workshop & Student Exhibition
NASA Langley Research Center
March 23rd, 2017

Agenda

- 8:00 Welcome and Introduction (Camarda)
- 8:15 Brief Discussion of Innovative Conceptual Engineering Design (ICED) Methodology and the Epic Challenge Program (Camarda)
- 8:30 ICED Epic Challenge Program Finland (Heikki Immonen)
8:45 Two Teams present
- 9:15 ICED Epic Challenge Program USA
9:15 Northbridge HS (MA) – 3 Teams Present
9:45 - 10:00 Break
10:00 Bergen Academy HS (NY) – Student Presentations
10:30 Moorestown HS (NJ) – 4 Teams Present
11:30 Virginia Tech (VA) – One Team Presents
- Noon Lunch NASA Cafeteria (Reserved Room)
- 1:15 – 4:00 Begin Student Tour of Facilities (Walk to close facilities (B 1148 & 1293)
- 1:15 – 4:00 Educator Workshop to discuss curriculum development, pedagogies (Problem-based learning, phenomenon-based learning, etc.)

Thank you in advance for your consideration and we hope to see you either onsite at NASA LaRC or virtually on March 23rd, 2017.

Dr. Charles Camarda
Senior Advisor for engineering Development
NASA's Langley Research Center
Astronaut STS-114



Catherine Stickney <cstickney@nps.org>

Fwd: ICED EPIC Challenge 2017

1 message

James Gorman <jgorman@nps.org>

Thu, Mar 9, 2017 at 8:13 AM

To: Amy Allen-Magnan <amckinstry@nps.org>, William Bishop <wbishop@nps.org>, Catherine Stickney <cstickney@nps.org>

Cc: Patrick Rossi <prossi@nps.org>

Hello all,

The official invite for NASA ICED just arrived from NASA with the details! Finally. See the attachment for all the details. I will get the required student security clearance information to them last period today when I have NASA ICED.

Thank you,

Jim

----- Forwarded message -----

From: **Coleman, Tamika Charvette. (LARC-A5)[LAMPS]** <tamika.coleman@nasa.gov>

Date: Thu, Mar 9, 2017 at 7:58 AM

Subject: ICED EPIC Challenge 2017

To: Ana Gebejes <ana.gebejes@uef.fi>, Andrea Sheridan <andshe@bergen.org>, Andy Jackson <ajackson@harrisonburg.k12.va.us>, Aneesh Chopra <aneesh@hunchanalytics.com>, Anne Peterson <anne.peterson@doe.virginia.gov>, "Bilen, Sven G. (GRC-LCIO)[PENNSYLVANIA STATE UNIVERSITY]" <sbilen@engr.psu.edu>, "Bill \"T-Ball\" Hayden (RADM - USN-Ret.)" <executivedirector@starbasevictory.org>, Bob Ash <rash@odu.edu>, Bud Peterson <bud.peterson@gatech.edu>, "Rhoades, Carrie M. (LARC-D210)" <carrie.m.rhoades@nasa.gov>, Cindy Becker <abcbecker2001@yahoo.com>, Colin Britcher <colin.britcher@nlanet.org>, Damodar Ambur <d_ambur@yahoo.com>, David Dowling <dolling@gwu.edu>, David Farina <farinada@mtps.com>, "denmon@bergen.org" <denmon@bergen.org>, don williams <dawilliams@hampton.k12.va.us>, Ellen Sallow <E.Sallow@wclschools.org>, Eric Paul <eripau@bergen.org>, Frank Cicio <frank@jq4.com>, Heikki Immonen <heikki.immonen@karelia.fi>, Huseyin Sarper <hsarper@odu.edu>, Ian Cawthray <icawthra@odu.edu>, Jack Matson <jvm4@psu.edu>, James Gorman <jgorman@nps.org>, Janne Hietala <janne.hietala@arcusys.fi>, Jeannette Yen <jeannette.yen@biology.gatech.edu>, Jeff Prillaman <jprillaman@k12albemarle.org>, Jennifer Schmidt <schmidtj@holliston.k12.ma.us>, Jim Batterson <jimbatterson@live.com>, Joe Borowiec <borowiec@nyu.edu>, Joyce Coriere <jcoriere@odu.edu>, Julia Cothron <cothron9293@comcast.net>, Katepalli Sreenivasan <krs3@nyu.edu>, Kevin Nelhuebel <kevin.Nelhuebel@nn.k12.va.us>, Kevin Shinpaugh <kashin@vt.edu>, Larry Kuznetz <n2mars@aol.com>, Laura Nelson <laura.nelson@pps.k12.va.us>, Linda Vahalla <lvahalla@odu.edu>, Lolita Hall <lb.hall@doe.virginia.gov>, Lynn Basham <lynn.basham@doe.virginia.gov>, Mark Clemente <mark.clemente@vbschools.com>, Mark Tronike <martro@bergen.org>, Mary Patterson <mary.patterson@nhrec.org>, Mary Sandy <msandy@odu.edu>, Michael Plesniak <plesniak@gwu.edu>, Michael Richey <michaelrichey@gmail.com>, Mike Liva <micliv@bergen.org>, Moustafa Moustafa <mmoustaf@odu.edu>, "Miller, Nathanael A. (LARC-D202)" <nathanael.a.miller@nasa.gov>, Oktay Baysal <obaysal@odu.edu>, Pam Moran <moran@k12albemarle.org>, Pat Konopnicki <patrick.konopnicki@vbschools.com>, Patricia Lynn Moore Stewart <pstewart@nps.k12.va.us>, Paul Nichols <pnichols@mcpsweb.org>, Peter Morales <peter.morales@nyu.edu>, petros katsioloudis <pkatsiol@odu.edu>, Phil Reed <preed@odu.edu>, Rebecca Gates <rgates@nuocps.net>, Richard Wilczewski <rwilczewski@mtps.com>, Robbie Munsey <rmunsey@k12albemarle.org>, Rudo Kashiri <rkashiri@odu.edu>, Shelley Spiers <shelley.spears@nlanet.org>, Sridhar Kota <kota@umich.edu>, Stephen Walk <steven.walk@nhgs.tec.va.us>, Steve Constantino <steve.constantino@doe.virginia.gov>, Steve Staples <steve.staples@doe.virginia.gov>, Steve Wagner <steven_wagner@ccpsnet.net>, "Throckmorton, David (LARC-D3) [NATIONAL INSTITUTE OF AEROSPACE]" <david.throckmorton@nlanet.org>, Tim Simpson <tw8@psu.edu>, Tina Manglicmot <tina.manglicmot@doe.virginia.gov>, Tracie Kunkel <tkunkel@nps.k12.va.us>, Tyler Hart <jhart@rbc.edu>, Vikki Wismer <vikki.wismer@nhrec.org>, William Hughes <whh11@scasd.org>

Cc: "Camarda, Charles J. (LARC-D2)" <charles.j.camarda@nasa.gov>

All,

Please join us for our second Epic Challenge Educator Workshop and Student Exhibition March 23rd, 2017 at NASA's Langley Research Center. This year we will be showcasing students work from Virginia Tech, Northbridge, Moorestown, and Bergen Academy high schools, as well as our university and high-school teams from Finland. We hope to make this a learning opportunity for students and educators with an afternoon of tours of some of the key technologies NASA is working on in aeronautics and space. We would also like to have educator discussions on learning pedagogy, lessons learned with the hopes of brainstorming ideas for scaling the program to reach as many students as possible in Virginia, Massachusetts, NY/NJ, and around the world.

We will have a virtual link via Vidyo for those who cannot attend in person and we will be recording the event for those unable to attend. We also have links to key material about the program and agenda updates.

Please RSVP by March 15th, so we can plan accordingly.

Thank you and look forward to connecting with you either face-to-face or virtually. Your feedback is important to us.

Tamika Coleman

ManTech International Corp.

Earth System Science Pathfinder Program Office

Langley Research Center

Mail Stop 145 Bldg 1195A

(o) 757-864-4390

(c) 757-650-7317

(f) 757-864-8435

tamika.coleman@nasa.gov

—
James J. Gorman
Science Teacher
Northbridge High School
508-234-6221 x 2325



Follow me on Twitter @MrGorman1

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ICED Educator Workshop 2017 Announcement-Flyer rev 1.docx

2147K

**SCHOOL COMMITTEE
AGENDA ITEM SUMMARY
(ACTION ITEM)**

**Agenda Item
For School Committee Meeting of
March 14, 2017**

SUBJECT: Line item transfer – Legal Expenses

Person(s) preparing Agenda Item: Melissa Walker

Title: Business Manager

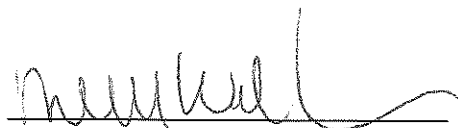
Listing of Attachments (supporting documentation):

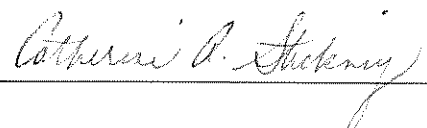
BACKGROUND: Based upon spending to date and anticipated spending for the remainder of the school year, a transfer of funds into the legal accounts is necessary.

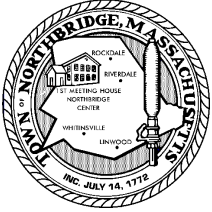
STATUS: Available funds have been identified in the heating line item to cover the additional funds needed in the legal line items.

FINANCIAL IMPLICATION: A transfer between line items is needed. This will not increase the bottom line of the FY17 budget.

RECOMMENDATION: That the School Committee approves a transfer of \$21,000 from the Heat, All Buildings line item into the Negotiations – Legal Services line item and a transfer of \$23,000 from the Heat, All Buildings line item into the Special Education Attorney line item.

Recommended by: 

Recommended by the Superintendent: 



The Northbridge Public Schools

Town of Northbridge

87 Linwood Avenue, Whitinsville, Massachusetts 01588 (508) 234-8156 FAX (508) 234-8469 www.nps.org

Dr. Catherine Stickney, Superintendent
Kathleen Perry, Director of Pupil Personnel Services

Amy McKinstry, Director of Curriculum
Melissa Walker, Business Manager

Northbridge School Committee 2015-2018 Goals Approved November 2015

Goal 1: Secure the requested budget to meet the needs of our students

Actions:

- Determine the needed funding for the FY17 budget
- Identify targeted list of stakeholders in the community for outreach
 - Parents
 - Community members
 - Non-parents
 - Non NPS parents
 - Renters
 - Town officials
 - Alumni
 - Voting age students
- Identify a list opportunities to educate the community on the needs/requirements of the schools, such as:
 - Official/Unofficial forums to review school/student needs and budget impact/process
 - Cadence of articles/press releases distributed to newspapers/media outlets (print and online)
 - Produce segments on NPS YouTube Channel or Cable TV

Timing:

- May each year, cased on outcome of town meeting/election

Measurement:

- Our proposed/recommended budget is approved at Town Meeting

Goal 2: Demonstrate student achievement with the resources available

Actions:

- Identify metric(s) by which to determine achievement
- Set target goal for metric(s)

Excellence - Accountability - Collaboration: "Every Student, Every Classroom, Every Day"

It is the policy of the Northbridge Public Schools not to discriminate on the basis of race, color, gender, religion, national origin, sexual orientation, gender identity, disability, age, or homelessness in its educational programs, services, activities, or employment.

- Ensure budget is developed based on student achievement priorities (as identified by administration/staff/committee)

Timing:

- November of each year (following testing results)

Measurement

- Identified metric(s) target is achieved

Goal 3: Execute capital maintenance and building project(s)

Actions:

- Committee members participate in planning tours of school buildings
- Create a prioritized list of Capitalize Maintenance Projects
- Create a prioritized list of long term School Building Projects
- Cost analysis of Capital Maintenance expenses vs. Building Project Expenses

Timing: TBD

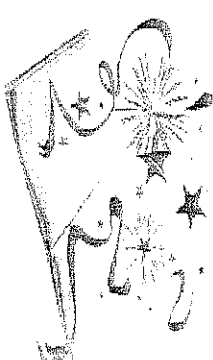
Measurement:

- All identified actions complete
- Short term projects completed or in process

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CELEBRATION of LEARNING



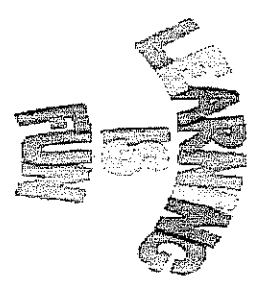
Please join us for the 4th annual Northbridge Public Schools
Celebration of Learning

Wednesday, March 8, 2017 6:00-7:30P

Northbridge High School

Staff members and their students from each of our schools will be presenting student work and projects from different subject areas and grade levels. We will also be sharing information on various school and district programs, including PBIS, Title I, Enrichment, and Springboard Education. We will also have information available about curriculum at the various grade levels.

In addition, we will have a brief presentation for the parents and families of our current *8th graders* regarding our high school program of studies, how to access and use iParent to look at your child's schedule, as well as information about our high school career academies starting at 6:15 p.m. in the auditorium.



Contact Kristen Ferrante at kferrante@nps.org or
508-234-8156 for information.

*Excellence * Accountability * Collaboration*

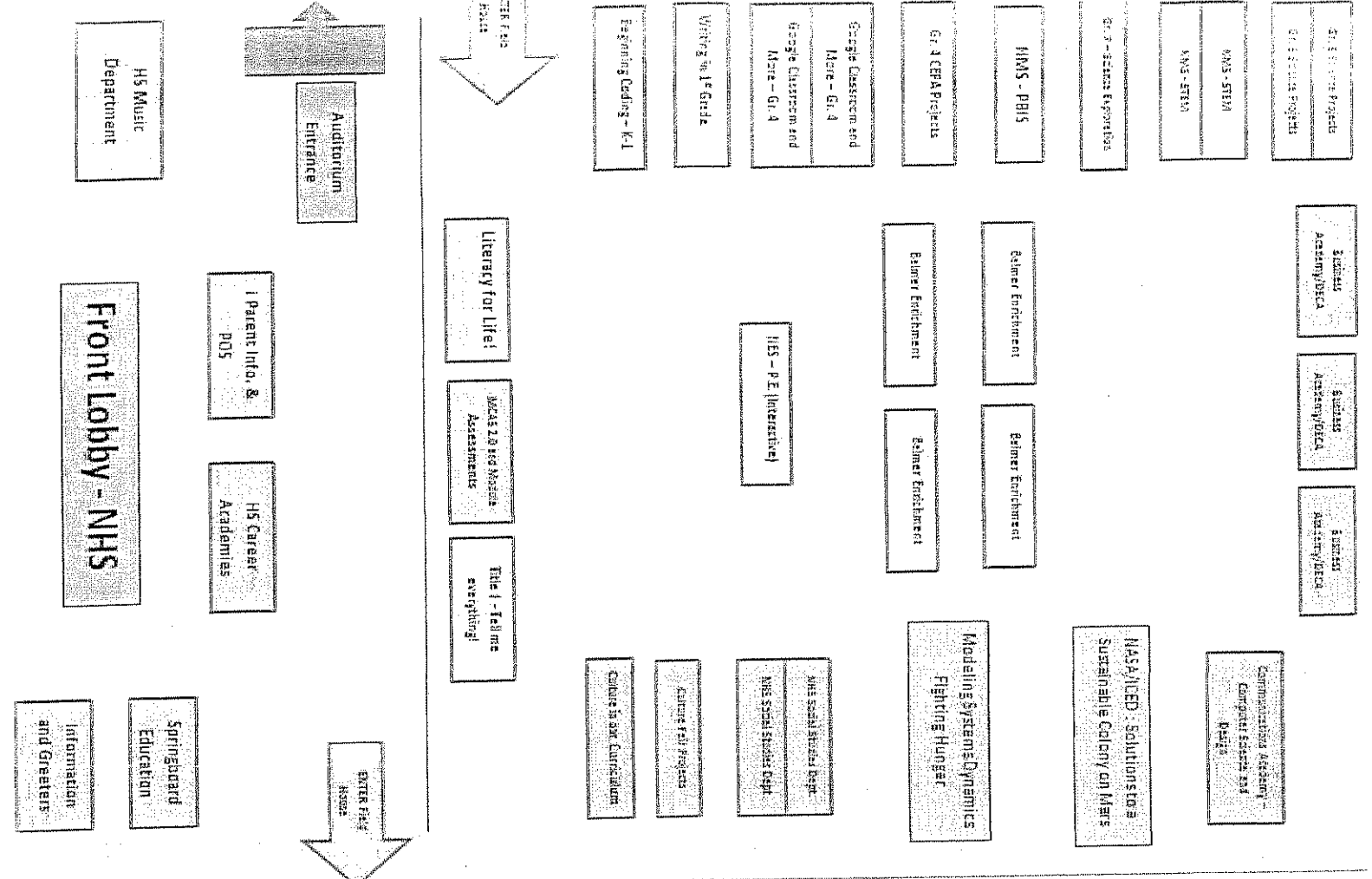


Exhibit	Location	Staff Member
Grade 6 Science Projects	Field House	Tracy Spadaro and Students
NMS STEM	Field House	Elizabeth Wermuth and Students
Grade 7- Science Exploration	Field House	Donna Taylor and Students
NMS- PBIS	Field House	Nick Hoffman and Michelle Benoit
Grade 4- CEPA Projects	Field House	Jennifer Siemaszko and students
Google Classrooms and More- Grade 4	Field House	Jennifer O'Brien and Students
Writing in 1st Grade	Field House	Jennifer Dean- Wing
Beginning Coding	Field House	Jean Schultz and Students
HS Music Department	Front Lobby	James Verdone
Parent Information and Program of Studies	Front Lobby	Catherine Green
Literacy for Life	Field House	Amy McKinstry
MCAS 2.0 and Module Assessments	Field House	Amy McKinstry
Balmer Enrichment	Field House	Michelle Muscatell and Students
Business Academy/DECA	Field House	Susan Palmer- Howes and Students

Exhibit	Location	Staff Member
Communication Academy- Computer Science/Design	Field House	Ann Cunningham and Students
NASA/ICED: Solutions to a Sustainable Colony on Mars	Field House	James Gorman and NASA Students
Modeling Systems Dynamics: Fighting Hunger	Field House	Sherri Travers and Students
NHS Social Studies Department	Field House	Alan Finkel and Students
Culture Fair Projects	Field House	Elena Batchelder and Students
Culture in our Curriculum	Field House	Mirela Marko, Susan Thulin, and Students
Springboard Education	Front Lobby	Donna Morreale
Information and Greeters	Front Lobby	
Title 1- Tell me Everything	Field House	Joel Khattar
High School Career Academies	Front Lobby	Dr. Catherine Stickney
NES- P.E. (Interactive)	Field House	Kristine MacNeil

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*** Please see the district website for more detailed information prior to March 8th.*



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*Excellence * Accountability * Collaboration:*

MASSACHUSETTS
LIFE SCIENCES CENTER



The Massachusetts Life Sciences Center

awards

Northbridge High School

a grant in the amount of

\$110,000

from the 2016 STEM Equipment and Supplies Grant Program

A handwritten signature in black ink, appearing to read 'Travis McCready', written over a horizontal line.

Travis McCready
President and CEO
Massachusetts Life Sciences Center



Catherine Stickney <cstickney@nps.org>

Grant

1 message

Patrick Rossi <prossi@nps.org>

Tue, Feb 28, 2017 at 9:26 PM

To: Catherine Stickney <cstickney@nps.org>

With the \$110,000 we will be implementing a Biotechnology program providing students a real world application based class. This opportunity will allow for our students to have first hand clinical lab experience and enable the students to have a significant insight as to what it entails to work in a laboratory setting. We will be working with analyzing DNA, proteins, crime scene evidence, patient samples, and even stem cell differentiation. With this funding we are also able to enhance our Pre-Med academy giving our students unique opportunities that only Northbridge will now be able to provide.

Side note, the celebration of learning this year I will not be able to attend. I will try and see if I can get some of my students to attend and present something but I do not know if that is going to be possible. The reason I cannot make it has nothing to do with our union presidents email urging teachers not to volunteer. It has everything to do with the timing of the event. We have our school wide science fair on the 9th which I hope you can come in and judge for us. Then on the 9th the regional science fair at Auburn is being held. I help run this event and will be putting things together on the 8th and that is why I will not be in attendance this year. I do apologize and wish I could make it. I truly enjoyed myself last year. Thanks again for coming today, I greatly appreciate your continued support and trust in me.

Pat Rossi
Science Department Chair
Northbridge High School



**Commonwealth of Massachusetts
Executive Office of Housing and Economic Development
Press Release**

Contact:

Samantha Kaufman (HED) – samantha.kaufman@state.ma.us

Angus McQuilken (MLSC) – amcquilken@masslifesciences.com

– Follow us on [Twitter](#) –

**Baker-Polito Administration Celebrates \$2.9 Million in
Workforce and STEM Grants to Educational
Institutions in Central Massachusetts**

Massachusetts Life Sciences Center capital grants will grow the innovation economy and prepare a trained workforce

Gardner - February 28, 2017 - Today Lieutenant Governor Karyn Polito joined Massachusetts Life Sciences Center President and CEO Travis McCready, local elected officials, and officials from Central Massachusetts educational institutions, to celebrate \$2.9 million in capital grant funding for regional workforce development and STEM education projects. The grants, from the Massachusetts Life Sciences Center (MLSC), advance the Baker-Polito Administration's commitment to build a highly trained workforce and seed job creation in regions across Massachusetts.

Lieutenant Governor Polito celebrated the regional grant awards at a ceremony at Mount Wachusett Community College in Gardner. Mount Wachusett is receiving over \$1.6 million in MLSC grant funding, enabling the college to renovate and equip a new medical laboratory facility, and significantly improving the quality of hands-on training for students.

The awards are part of a statewide grant round that is delivering a total of \$39 million in MLSC capital grants to 14 research and educational institutions, and 49 middle and high schools, across Massachusetts.

"Investments in the vitality of the Massachusetts workforce are critical to ensuring long-term growth in our economy," **said Governor Charlie Baker.** "Our ongoing efforts to deliver a high-quality STEM education to middle- and high-school students, and our focus on delivering impactful workforce training opportunities at community colleges and

other institutions of higher education, will allow Massachusetts residents to access quality careers in growing fields, including robotics, advanced manufacturing, healthcare, and biotechnology.”

“These capital grants from the Massachusetts Life Sciences Center deepen our administration’s efforts to build vibrant regions, from Cape Ann to the Berkshires,” **said Lieutenant Governor Karyn Polito**. “By training middle school and high school students on state-of-the-art STEM equipment, and creating new pipelines for workforce development and scientific breakthroughs, these awards will create new economic opportunities in Central Massachusetts, and help build a stronger Commonwealth.”

“One of our capital investment plan priorities is to make strategic investments in the future workforce of the Commonwealth, including STEM programs for our students,” **said Administration and Finance Secretary Kristen Lepore**. “By awarding these capital grants today, the administration is once again leveraging our resources to invest in the Commonwealth’s growing biotech industry.”

“Massachusetts is building the nation’s most competitive economy by investing in workforce development, and in the infrastructure of innovation,” **said Housing and Economic Development Secretary Jay Ash**. “By constructing new science and technology laboratories in Framingham and Gardner, and improving the quality of STEM education for students in Fitchburg, Franklin, Northbridge, Warren, Webster and Worcester, these awards will help make Central Massachusetts a more dynamic place to live and work, and they will equip local residents with the skills needed to retain our title as the most innovative state in the nation.”

“The MLSC continues to make major capital investments to support education and training at academic institutions across the entire Commonwealth in order to meet the workforce needs of our state’s fastest-growing industry,” **said Travis McCready, President and CEO of the MLSC**. “Our capital grants will enable Mt. Wachusett Community College, Framingham State University and Dean College to significantly enhance their capacity for workforce training, so that our students will be better prepared for career opportunities in the life sciences. Through our STEM equipment and supply grants, area high schools and middle schools will be better positioned to connect students with jobs in the fast-growing Massachusetts life sciences ecosystem. In both cases, we are excited to play a role in supporting economic growth and workforce preparedness in Central Massachusetts.”

“This grant from the Massachusetts Life Sciences Center will allow us to equip a state-of-the-art medical laboratory technology classroom and create a new life sciences lecture room,” **said Mount Wachusett Community College President Daniel M. Asquino**. “These improvements will allow us to better serve numerous science, medical

and liberal arts students as well as expand the medical laboratory technology program that prepares graduates for the high-demand medical and clinical laboratory technician field.”

“I want to thank the Baker-Polito administration for awarding schools in my district with STEM grants that will be used to train and prepare students for the workforce that lies ahead,” **said Senator Jennifer Flanagan**. “These investments, specifically in areas of science and technology, are critically important for the future of the Commonwealth, and these students will be well prepared to lead the way.”

“MWCC continues to stay ahead of the curve in preparing and educating its students with a truly 21st century education, and this is another excellent example of that,” **said Representative Jonathan Zlotnik**. “Congratulations for this very well deserved grant.”

Funding for the awards is drawn from the Massachusetts Life Sciences Center’s Competitive Capital Program, and the Center’s competitive STEM Equipment and Supplies Grant Program.

The MLSC’s Competitive Capital Program provides grants for capital projects that support the life sciences ecosystem in Massachusetts by enabling and supporting life sciences workforce development and training, research and development, commercialization and manufacturing in the Commonwealth. The program funds high-potential economic development projects by nonprofit entities that make significant contributions to the state’s life sciences ecosystem. To date, the MLSC has awarded or committed more than \$405 million to support capital projects across the state.

The MLSC’s STEM (Science, Technology, Engineering and Math) Equipment and Supplies Grant Program funds the purchase of equipment and supplies for high schools and middle schools in the Commonwealth. The program helps schools train students for life sciences careers, increase student achievement and student interest in STEM fields, and support the implementation of the state’s STEM standards. The competitive program is open to vocational-technical high schools, public high schools and middle schools located in Gateway Cities, and public high schools and middle schools with economically disadvantaged student populations. To date, the STEM Equipment and Supplies Grant Program has awarded more than \$16.3 million to 149 different schools and organizations throughout Massachusetts, and leveraged more than \$1 million in matching funds from industry partners.

Central Massachusetts Regional 2017 MLSC Competitive Capital Awards:

Dean College, Franklin - \$297,030

Dean College will update its laboratory equipment and training programs to expand STEM programming for the college's diverse student community, and develop new courses in biotechnology and molecular biology.

Framingham State University, Framingham - \$454,000

Framingham State University will use MLSC capital funds to advance the completion and equipping of 16 new state-of-the-art biology and chemistry laboratories, and to equip classroom space for other STEM-focused academic programs, including mathematics and computer science.

Mount Wachusett Community College, Gardner - \$1,646,787

MLSC grant funding will allow MWCC to renovate and equip classroom space, upgrading aging and outdated equipment, and launching a new Medical Laboratory Technology/Clinical Laboratory Science facility. These upgrades will bring the program up to current industry standards, allowing MWCC to increase the number of life sciences courses it can offer and enhance current programs.

Central Massachusetts Regional 2017 STEM Equipment Awards:

Bartlett High School, Webster - \$16,112

Bartlett High School will purchase handheld computing devices, an interactive SMART Board and related software. This equipment will give students the necessary resources to gain a deeper understanding of abstract concepts in math and computer science.

Goodrich Academy, Fitchburg - \$105,345

Goodrich Academy will use MLSC grant funding to fully equip a new high school STEM lab, allowing students to train on technical equipment related to studies in biology, chemistry, physics and bioethics. Students will gain experience in data-gathering, interpretation and science-writing, and Goodrich Academy will further modernize its curriculum.

Montachusett Regional Vocational Technical School, Fitchburg - \$99,697

Montachusett Regional Vocational Technical School will expand its life sciences course offerings to including Principles of Biomedical Science and Human Body Systems. Students will gain hands-on training in a renovated laboratory environment that replicates industry standards.

Northbridge High School, Northbridge - \$110,000

Northbridge High School will use MLSC funds to complete the build-out of a biotechnology lab with new equipment, including digital microscopes, micropipettes, DNA electrophoresis, and centrifuges.

Quaboag Middle Innovation School, Worcester - \$50,000

Quaboag Middle Innovation School will use MLSC funds to purchase new textbooks and materials, including robotics kits which will engage students in an activities-oriented curriculum to increase exposure to STEM related fields.

Sizer Charter School, Fitchburg - \$14,780

MLSC grant funding will allow Sizer Charter School to purchase a 3D printer capable of printing a large volume of objects quickly, allowing students to gain experience with 3D design and rapid prototyping.

South High Community School, Worcester - \$91,609

South High Community School will use MLSC grant funding to implement Texas Instrument Nspire technology and upgrade equipment in secondary science classrooms to create a streamlined curriculum for students in Worcester's middle and high schools.

About the Massachusetts Life Sciences Center

The Massachusetts Life Sciences Center (MLSC) is an investment agency that supports life sciences innovation, education, research and development and commercialization. The MLSC is charged with implementing a \$1-billion, state-funded investment initiative. These investments create jobs and support advances that improve health and well-being. The MLSC offers the nation's most comprehensive set of incentives and collaborative programs targeted to the life sciences ecosystem. These programs propel the growth that has made Massachusetts the global leader in life sciences. The MLSC creates new models for collaboration and partners with organizations, both public and private, around the world to promote innovation in the life sciences. Learn more at <http://www.masslifesciences.com/>

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