



NEMATYC NEWS

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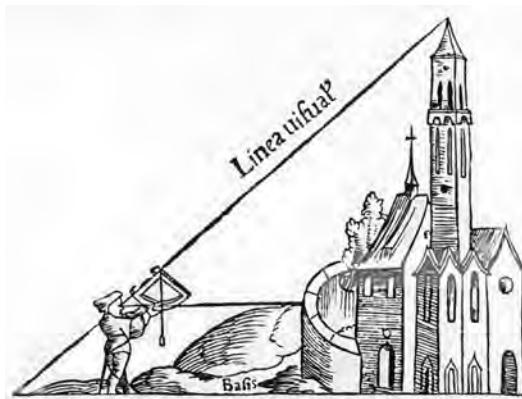


Vol. 27, No. 2

Newsletter of the New England Mathematical Association of Two-Year Colleges

Spring, 2019

NEMATYC 2019
45th Annual Meeting
MATHEMATICS in ACTION
Friday and Saturday, April 5-6, 2019
Quincy College
Quincy, MA
Chair: Elena Heineke



Register and Call for Presenter Proposals Inside



From the NEMATYC President

Hello friends,

Happy New Year! I hope that everyone's semester is off to a great start. One of the great advantages to being a teacher is that we get a fresh start each semester. We get a new group of students who are excited to learn. We get to reset all of our courses, with the opportunity to fix the things that didn't work and enhance the ones that did. My first dean at Massasoit reminded me how good we have it--she often had to deal with the same personalities for years or even decades.

As we go through this reboot cycle, my big theme for the semester is falling in love with mathematics again. At some point, math became really important to me. I decided to focus years of my undergraduate education on it, with loans I'm still paying off, and then I went back for a second helping in graduate school. Back then I probably skipped a social opportunity or two for math, and I certainly gave up some sleep working on problem sets and studying for exams.

Continued on page 3

From the Spring 2019 Conference Chair

Hello friends and colleagues,

The Spring NEMATYC conference will take place at Quincy College in Quincy, Massachusetts. Our college locates on the South Shore. For the first time in many years, you can get to the conference by subway. The college is a 5-minute walk from Quincy Center station on the red line.

On Friday afternoon, there will be a tour to The John F. Kennedy Presidential Library and Museum which is dedicated to preserving and providing access to the legacy of the 35th President of the United States. (more details below) The John F. Kennedy Presidential Library and Museum preserves and provides access to historical materials related to President Kennedy and his times -- and engages with citizens of all ages and



Continued on page 2

ABOUT THE CONFERENCE

Call for Presenters

The call for presenters has been extended until MARCH 12, 2018.

Submit your proposal online at <http://nematytc.info/PROPOSAL/>

nationalities through JFK's life story and the ideals he championed. The Library located on a ten-acre park, overlooking the sea that he loved and the city that launched President Kennedy to greatness, the Museum stands as a vibrant tribute to the life and times of John F. Kennedy. The tour will take place from 3pm to 5 pm.

Afterwards, there will be social event from 6 to 8 pm where you can enjoy food and drinks with friends.

Conference registration opens on Saturday at 8 am on third floor of President Place. There will be morning and afternoon presentations. Lunch will be followed by a presentation by keynote speaker.

Here is a summary of information regarding Friday's and Saturday's activities.

If you are interested in staying overnight, here are three options:

Residence Inn Boston Braintree

Address: 180 Forbes Rd, Braintree, MA 02184

Phone: (781) 794-1700

Here are studio, and 1-bedroom suites that give you 50% more space than comparably priced hotel rooms, and offer full kitchens and separate areas for relaxing after a long day. Rate \$ 179. There is shuttle service to local businesses, Quincy Adams train stop, South Shore Plaza, and Logan Express

Hampton Inn Boston/Braintree

Address: 215 Wood Rd, Braintree, MA 02184

Phone: (781) 380-3300

Guestrooms feature modern amenities like a 32-inch flat screen HDTV, mini-refrigerator, microwave. Free hot breakfast. Rate \$160. Complimentary shuttle service to local area within 3 miles.

Quincy Marriott

We reserved 25 rooms at the Quincy Marriott for participants who plan to stay at a hotel. 20 of the rooms are standard single occupancy at a rate of \$164. Five (5) of the rooms are double occupancy at a rate of \$184. The standard occupancy rooms can be reserved directly through Marriott, either through this link - [Book your group rate for NEMATYC Room Block](#) - or by calling 800-228-9290 and stating that this is for the NEMATYC room block. [We need to submit a list of folks interested in the double occupancy rooms to the Marriott](#). Double occupancy folks will need to email acotter1@massasoit.mass.edu to reserve a double occupancy room.

The hotel is located one metro stop away from Quincy College. You can leave your car at the hotel and take the metro to get to the college. Quincy College is only a 5-minute walk from the Quincy Center metro station on the red line. Quincy College is located downtown Quincy and does not have dedicated parking. However, there is a paid parking garage right next to the college. Last time I checked, parking there on a weekend cost \$5 for 12 hours.

We also want to give you some ideas of what you can do in your spare time while in Boston. You can see the most famous parts of the city by taking the Freedom Trail (<https://www.thefreedomtrail.org/>). You can find additional ideas on TripAdvisor (<https://www.tripadvisor.com/>). Boston weather can vary greatly in April, so please keep that in mind.

Kennedy Presidential Library Tour

A few days before the conference, we will reach out to all the participants to see who wants to visit The John F. Kennedy Presidential Library and Museum.

The John F. Kennedy Presidential Library and Museum preserves and provides access to historical materials related to President Kennedy and his times -- and engages with citizens of all ages and nationalities through JFK's life story and the ideals he championed. The Library located on a ten-acre park, overlooking the sea that he loved and the

city that launched President Kennedy to greatness, the Museum stands as a vibrant tribute to the life and times of John F. Kennedy. The tour will take place from 3pm to 5pm.

Afterwards, there will be a social event from 6pm to 8pm where you can enjoy food and drinks with friends. We have already booked live music for this event.

This year, as always, we are eager to see engaging proposals. We are looking for data-rich proposals, math for fun, using math in other discipline, proposals that focus on pedagogy, online courses, gateway programs, flipped/emporium classrooms, and co requisite courses. Whether you teach developmental math, calculus, or statistics, or you're engaged in instructor preparation, please, share your ideas. Don't let this list stop you! Please submit a presentation proposal by filing out the proposal form by March 12.

Even if you choose not to present, we hope you will attend. You can meet new colleagues and renew connection with old friends.

I hope to see you in April.

Your conference chair,
Elena Heineke.



QUINCY COLLEGE

Quincy Campus

Presidents Place
1250 Hancock
Street
Quincy, MA
02169



**Conference registration opens on Saturday at 8 am
on the third floor of President Place.**

Get **DIRECTIONS** for the Presidents Place campus at

<https://quincycollege.edu/about/directions>.

There is **PARKING** on Saville Ave behind the campus.

The campus is a short walk from the Quincy Center stop on the **MBTA REDLINE**.



Whenever you can, count.
Sir Francis Galton

From the NEMATYC President, continued from page 1

Beyond that, I've dedicated my professional career to sharing my love of mathematics with my students. However, working in math education brings with it a host of non-mathematical challenges, particularly at a two-year college. I often find myself mired in the daily grind of teaching: planning classes, writing and grading tests, and dealing with student issues, too busy to give any significant thought to the subject that I teach. Much of what is left of my professional energy goes to education initiatives, most recently things like placement and co-requisite remediation. As an educator at a two-year college, I have no research requirement forcing me to stay engaged with my subject matter.

Outside of academia, many suppose that the classroom is where we have the opportunity to engage in that passion for our subject matter, but I think those in the business would agree that this is not usually the case. The level of math taught at two-year colleges is pretty basic and not particularly challenging to instructors. Teaching the same courses semester after semester can take the fun out of even the exciting bits. My students, though they never fail to amaze me with their will to overcome despite the odds stacked against them, are, with few exceptions, decidedly not passionate about mathematics. I joke that most of them would prefer a good vigorous waterboarding to taking a math class. They agree.

Though I spend much of my day engaged in some way or another with mathematics, I really struggle to find room in my life to be passionate about the subject matter itself. As I said before, my theme for this semester is falling in love with mathematics again. I find myself wondering what are some things that I can do to reignite my passion for the subject matter. I think that one of the ways that we do that is through participation in organizations like NEMATYC. NEMATYC helps to bring together folks who all have that passion for math in their backgrounds. The speakers at the Fall Dinner and Spring Conference often rekindle our love for mathematics, and the breakout sessions at the conference can do likewise. Through NEMATYC, our colleges participate in the Student Math League, and every semester the challenge of the exam problems is exciting and the passion that our students bring to it is infectious. It's ability to remind of us of our love of mathematics is a huge benefit to being a part of an organization like NEMATYC.

Alex Cotter
NEMATYC President
Massasoit Community College



Conferences and professional opportunities are the product of a lot of work by our colleagues and friends of NEMATYC.

The NEMATYC Executive Board met at Quincy College Wednesday, February 9 for a meeting and planning. They were joined by three Quincy administrators who are helping NEMATYC with the conference.

Shown from left in clockwise order are Aisha Arroyo, Treasurer, Billy Jackson, Vice president, Elena Heineke, Conference Chair, Autumn Alden, Secretary, Tina Cahill, Quincy College Director of Institutional Advancement, Dennis Burke, Quincy College Dean of Natural & Health Sciences, Taggart Boyle, Quincy College Associate Vice President for Communications & Marketing, NEMATYC president Alex Cotter, Dave Henry, At-large member, Kerryn Snyder, Student Math League Coordinator, Tonka Zelenkova, At-large member.

Conference Registration Form

New England Mathematical Association of Two Year Colleges

45th Annual Meeting – Friday & Saturday, April 5-6, 2019

Quincy College – Quincy, MA

Elena Heineke, Chair

Early Registration Discount Date: Monday March 26, 2019

Register Online at <http://nematytc.info/REGISTER>

NAME _____

Preferred Mailing Address _____

This address is
Home ___ College ___

Phone _____ Email _____

Institution/Affiliation _____

Which activities do you plan to attend?

- Friday Afternoon Kennedy Presidential Library Tour
- Friday Evening Social Event **
- Saturday Morning Sessions
- Saturday Lunch
- Saturday Afternoon Sessions

** Sponsored by Pearson

Registration Type (note 1)	Early Fee (Late Fee)
Full-Time Educator or Professional	\$45 (\$55 after 3/26)
Adjunct Faculty	\$20 (\$30 after 3/26)
Student	\$20 (\$30 after 3/26)
Presenter	Fee waived (note 3)
Current ACCCESS Fellow	Fee waived (note 2)

- (1) Saturday lunch cannot be guaranteed for registrants after March 26
- (2) Includes 1-year NEMATYC membership
- (3) First presenter only in multiple presenter sessions

Would you be willing to be a presider? Yes No

PAYMENT

Make checks payable to NEMATYC and mail registrations to:

NEMATYC
Attn: Elena Heineke
Mathematics Department
Quincy College
Presidents Place
1250 Hancock St
Quincy MA 02169

Much Easier for Everybody

Register Online at
<http://nematytc.info/REGISTER>

Questions? Email Elena Heineke at eheineke@quincycolllege.edu

Conference Refund Policy: A refund of 100% of your advance registration fees less the dues amount will be given upon receipt of a written request postmarked no later than two weeks prior to the conference. A 50% refund less the dues amount will be given if written request is postmarked within the two weeks prior to the conference. No refunds for non-attendance will be given for requests postmarked after the date of the conference. All requests should be sent to the NEMATYC Conference Chairperson. Refunds will be processed approximately four to six weeks after the conference.

Call for Presenters

The call for presenters has been extended until MARCH 12, 2018.

Submit your proposal online at <http://nematytc.info/PROPOSAL/>

Theme: Applying Mathematics to the Future

Topics: Developmental Programs, Open Educational Resources, STEM starter programs, Data Science in the first two years, Vision Project course revisions, Math for fun, How I teach it, boot camps, using math in other disciplines, online college math labs/math tutoring, online/blended courses, Gateway Programs, teaching techniques and learning styles, cutting edge software/technology, modeling data, service learning, flipped classrooms, emporium classroom or other accelerated classrooms, and K-12 and college collaboration. Don't let this list stop you!

NOMINATING COMMITTEE REPORT

The NEMATYC Nominating Committee is pleased to present the following slate of officers for the elections to be held at the business meeting, Saturday, April 6, 2019, at the annual conference.

VICE PRESIDENT (One-Year Term)

BILLY JACKSON

Billy Jackson has been teaching at North Shore Community College for seven years. He earned Bachelor and Master degrees in Mathematics from Westfield State University and Salem State University, respectively. A recent interest of his is learning R programming and figuring out how to easily bring it into his statistics classrooms. Currently, Billy serves NEMATYC as Vice President.

TREASURER (Three-Year Term)

AISHA ARROYO

Aisha Hsu Arroyo holds a BS in Applied Mathematics from the Georgia Institute of Technology and an MS in Mathematics from the University of Illinois at Urbana-Champaign. She has been teaching full-time since Fall 2013, first at Massasoit Community College and currently at Middlesex Community College. She enjoys teaching a variety of courses from developmental mathematics through calculus, and is also involved with the Student Math League. Aisha is featured on page 9 for her great success in the Faculty Math League competition

MEMBER-AT-LARGE (Two-Year Term, two to be elected)

TONKA ZELENKOVA

Tonka Zelenkova has been teaching at Middlesex Community College since 2010. She has a Master's degree in Mathematics and Computer Science from the University of Plovdiv, Bulgaria. Tonka's passion is easy math algorithms that can be applied to solve everyday life problems.

Prior to the election, nominations will also be welcomed and accepted from the floor.

Robert Cantin, Nominating Committee Chair

The NEMATYC STUDENT MATH LEAGUE RECOGNITION AWARD PROGRAM

by Kerryn Snyder, NEMATYC Student Mathematics League Coordinator

Award Program

The purpose of the NEMATYC Student Mathematics League Recognition Awards Program is to foster extracurricular mathematics learning opportunities for students through participation in the AMATYC Student Mathematics League (SML). The top-placing student in the AMATYC SML Competition at each school in NEMATYC's region receives a \$100 award. The only criteria is the student must participate in both the Fall and Spring competitions. The top school receives the Lois A. Martin NEMATYC Student Mathematics League Award.

Highlights and History

Nine NEMATYC schools registered for round one in the Fall. Middlesex Community College had an excellent showing in round one and currently has the third highest score of all schools in the AMATYC Northeast Region with 58.5 points, and is first in the NEMATYC service area. Holyoke Community College is currently ranked second in the NEMATYC service area.

NEMATYC schools had 5 of the top 20 individuals in the AMATYC Northeast region this fall. The highest individual score in NEMATYC's region is Steven Oslan of Middlesex, with a very impressive 24.5, which is third in the Northeast. North Shore Community College's Hung Tran was close behind.

Join the Fun

The second test of the 2018-2019 competition will be given from Friday, February 9 through Saturday, March 3. If your college does not have a team, please consider joining the spirited rivalry among NEMATYC schools. Your involvement can be as simple as just administering the tests. Or, you might include practice sessions and even advise a campus mathematics club. Your students will thank you for giving them the opportunity to compete. It's still not too late to join the fun! Visit www.amatyc.org, or contact Kerryn for more information at KSnyder@massasoit.mass.edu

NEMATYC 2018-2019 Student Math League Standings After First Round

Students in Top 20 of Northeast Region

Rank	Student	College	Score
1	Tommy He	Holyoke CC	27
4	Daniyar Aubekerov	Bunker Hill CC	21
9	Deqi Tao	Massasoit CC	16.5
11	Truc Duong	Quincy College	14
12	Wyatt Milgrim	Middlesex CC	12.5
15	Richard Jagodowski	Springfield Technical CC	12
17	William Goldie	Middlesex CC	11.5
17	Jeffrey Campbell	NHTI Concord CC	11.5

Teams in Top 20 of Northeast Region

Rank	Team	Score
4	Middlesex CC	54
6	Holyoke CC	44
7	Massasoit CC	40.5
7	NHTI Concord CC	40.5
9	Bunker Hill CC	36.5
11	Springfield Technical CC	30.5
12	Mount Wachusett CC	29
13	Quinsigamond CC	28.5
14	North Shore CC	23
15	Quincy College	14

AMATYC Affiliate Scholarship

NEMATYC awards its AMATYC Affiliate Scholarship (one free conference registration, worth \$300) at the NEMATYC Spring Conference. At the conference every school in NEMATYC's service area will be in the running to win the scholarship through a raffle held at the lunch meeting. Someone from that school must be in attendance at the business meeting. Each institution will determine the individual recipient, who must be an active AMATYC member. In the spirit of the scholarship priority should be given to first-time attendee.

You can register for the spring conference at
<http://nematycc.info/REGISTER>

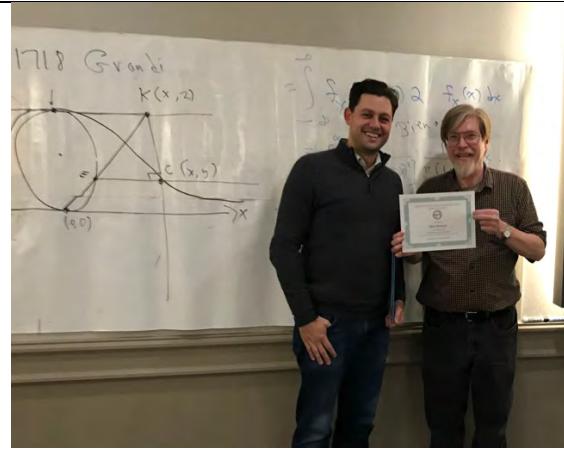
YOU are the M in STEM

10th Annual NEMATYC Fall Dinner Meeting

The 10th NEMATYC Fall Dinner Meeting was held at the Copper House Tavern, Waltham.

The featured speaker was **Dr. Dan Weiner, Boston University**.

His topic was “The Mysterious Cauchy Distribution”, concerning the distribution of points related to the children’s game of pin the tail on the donkey.



NEMATYC at AMATYC 2018 – Orlando, FL



Some of the NEMATYC members who attended AMATYC 2018

Hello NEMATYC Colleagues,

Central New York is getting hit by an ice storm these days, and I am sure most of you are either in a similar weather situation or can understand exactly what this feels like. I hope you all stay warm and safe until we meet again.

It was great to see many of you at the AMATYC Annual Conference in Orlando. I hope those who came had a magical time and managed to gather some new, creative, and interesting ideas and activities related to mathematics.



I hope to see as many of you, and hopefully more, at the upcoming AMATYC Annual Conference in Milwaukee, November 14-17, 2019, where we can admire the Great Lakes and share our Great Ideas! For this conference, I have decided to participate, for the first time, in the Faculty Math League contest, under the mentorship of our very own Aisha Arroyo, and I would like to encourage you to also participate, so we can

win our famous plaque back. It was heartbreakingly to pass it along to the Southeast Region last fall.

I look forward to seeing you all at the 45th Annual NEMATYC Conference this April at Quincy College. I am excited to chat and see everyone again as well as attend great presentations.

The weekend after the NEMATYC conference, NYSMATYC is holding their 2019 Annual Conference at the Radisson Hotel in Corning NY on April 12-14, 2019. The theme of the conference is “Collaborations.”

If you cannot make it that far west in New York, MATYCONN is holding their spring meeting at Asnuntuck Community College, in Enfield CT, on April 12, 2019.

Please follow the activities of the AMATYC Northeast Region on Facebook at
<https://www.facebook.com/groups/1726418054346506/>



Please note and remind your colleagues that an AMATYC membership gives you access to many professional development opportunities beyond the annual conference.

- We offer a variety of webinars to members and non-members and many resources in areas like research, developmental mathematics, statistics, mathematics intensive, international mathematics, technology and innovation, placement and assessment, teacher prep, department chair and adjuncts, and many more. AMATYC members who cannot attend a live webinar but are interested in the topic can view the archived webinars at a convenient time through the AMATYC website. The next three webinars offered in March 2019 are
 - Monday, March 4, 2019 at 3:00PM EST – Helen Burn and Danielle Blevins will present on Relational Strategies and Promising Practices in Math Instruction
 - Monday, March 25, 2019 at 3:00PM EST – Elizabeth Barnett will talk about Improving Student Placement Using Multiple Measures Assessment
 - Wednesday, March 27, 2019 at 4:00PM EST – Megan Breit-Goodwin and Jacqueline Dewar will discuss the Scholarship of Teaching and Learning in College Mathematics
- Traveling Workshops also offer the chance for professional development at your campus (applications for 2019 closed on January 15).
- Project ACCCESS is for mathematics faculty in their first four years of teaching (applications for Cohort 16 will close on March 1, 2019). Please consider nominating yourself or a colleague.

- Project SLOPE (Scholarly Leaders Originating as Practicing Educators) is a grant-funded initiative for two-year mathematics faculty interested in research.
- Subscriptions to *AMATYC News* and the MathAMATYC Educator allow members to stay informed about happenings in mathematics in the first two years of college, as well as get published.

Additionally, AMATYC offers opportunities for our students to be involved in mathematics through

- SML – Student Math League (Round 2 for 2017-2018 is February 8 – March 2)
- SRL – Student Research League (new registrations are accepted until March 15, 2019, and the contest is scheduled for April 5 through April 15, 2019)

Finally, I would like to encourage you to speak to your administrators about the benefits of the AMATYC Institutional Membership which offers

- Two free job postings
- One conference registration
- An SML registration
- One SRL team registration
- Access to all AMATYC Publications and Webinars

If you would like to discuss further about the benefits of being a member of AMATYC, please contact me at sophia.georgiakaki@amatyc.org, or we can chat next time we meet!

I hope to see you at Quincy CC!

Sophia Georgiakaki

AMATYC Northeast Vice President

NEMATYC Member Scores AGAIN at AMATYC-Orlando – Aisha Arroyo

This year, the Faculty Math League competition at AMATYC 2018 was again sponsored by Mu Alpha Theta.

The winner was Aisha Arroyo of Middlesex CC.

In 2013 Aisha tied for second place with **Aaron Levin of Holyoke CC**.

In 2014 there was a tie for first place between **Aisha** (then at Massasoit CC and **Curtis Mitchell, Kirkwood CC; Curtis once taught at Greenfield CC**.

Aisha placed second in 2017.

Pictured:

Aisha (right) and **Judy King**, longtime NEMATYC activist and AMATYC A-Net Director. At the AMATYC conference, right after a talk on origami.



JOIN NEMATYC

You are a member if you attended the Spring conference last year at Bristol Community College, or if you mailed in your \$10 membership fee, or if you attended the Fall dinner meeting, or if you will be attending this spring's conference.

Not a member?

Join by sending the \$10.00 annual membership fee, payable to NEMATYC, to

Aisha Arroyo, NEMATYC Treasurer
Middlesex Community College
591 Springs Road
Bedford, MA 01730

AMATYC Presidential Student Scholarship

Each AMATYC affiliate may submit one nomination for a \$1,000 scholarship, which is awarded by a drawing (44 affiliates, but not everyone nominates) at the AMATYC conference. Criteria: 1. Nominating institution must have one active member of AMATYC; 2. Minimum student GPA 3.0; 3. Nominated student must be majoring in math (at next school) and enrolled full-time at the nominating institution during the Spring semester.

Example: Joe Smith is at Bristol CC this spring and will be transferring to Bridgewater State to study Mathematics and has a GPA of 3.15.

For more information or questions, contact David Henry (david.henry@bristolcc.edu).

NEMATYC EXECUTIVE BOARD – 2018-2019

President	18-20	Alex Cotter	Massasoit CC	ACotter1@massasoit.mass.edu
Vice President	18-19	Billy Jackson	North Shore CC	wjackson@northshore.edu
Past President	18-20	Robert Cantin	MassBay CC	RCantin@massbay.edu
Secretary	18-20	Autumn Alden	Bristol CC	Autumn.Alden@bristolcc.edu
Treasurer	16-19	Aisha Arroyo	Middlesex CC	ArroyoA@middlesex.mass.edu
At-Large Member	17-19	Tonka Zelenkova	Middlesex CC	zelenkovat@middlesex.mass.edu
At-Large Member	18-19	Dave Henry	Bristol CC	David.Henry@bristolcc.edu
At-Large Member	18-20	Philomena D'Alessandro	Quinsigamond CC	pdalessandro@qcc.mass.edu
At-Large Member	18-20	Aliza Miller	Middlesex CC	MillerAK@middlesex.mass.edu

Appointed NEMATYC Positions

Conference Chair	18-19	Elena Heineke	Quincy College
Past Conference Chair	18-19	Richard Neville	Dean College
Membership Chair	18-20	Maria Arambel	Middlesex CC ArambelM@middlesex.mass.edu
Student Math League Crdinr	18-20	Kerryn Snyder	Massasoit CC KSnyder@massasoit.mass.edu
Webmaster	18-20	Mary E. Sullivan	Cape Cod CC MSulli01@capecod.edu
Newsletter Editor	18-20	Philip Mahler	Middlesex CC mahlermath@comcast.net

AMATYC Regional Vice President Sophia Georgiakaki, Tompkins Cortland CC, Sophia.georgiakaki@amatyc.org



The NEMATYC Newsletter is issued twice a year, in the Fall and in the Spring. Suggestions and submissions may be directed to the president or the editor.

NEMATYC NEWSLETTER
Philip Mahler, Editor
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Carlisle, MA 01741