



NEMATYC NEWS

The News is available online at www.NEMATYC.org



Vol. 28, No 1

The newsletter of the New England Mathematical Association
of Two-Year Colleges

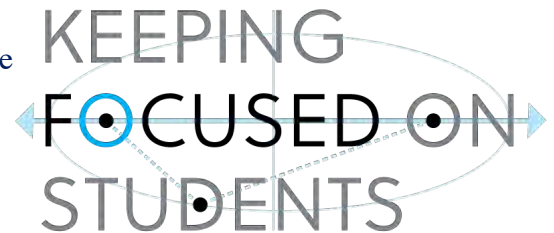
Fall, 2019

ANNOUNCING

NEMATYC 2020 Conference

NEMATYC's 46th Annual Conference will be hosted at **Massasoit Community College**, Saturday April 4, 2020. The theme is "Keeping Focused on Students." Conference Co-chairs are Kerryn Snyder and Alex Cotter.

To propose a paper or session, go to <http://nematyc.info/PROPOSAL/>



From the NEMATYC President

Hello friends,
Welcome back! I hope that your fall semester is off to a great start. Speaking for myself, I have fantastic students who are working hard and I am just trying to hold up my end of the bargain. My big news of the semester is that I finally

managed to wriggle my way out of being Department Chair at Massasoit. The return to the classroom full-time has been really great for me. For the first time in a long time, I feel like my work role is really clear and well-defined, with manageable expectations. However, despite the fact that I'm in front of people teaching all day long, I find that I am feeling very isolated at work this semester. Because I'm in the classroom, I just have fewer opportunities to connect with my colleagues on a daily basis. In talking with other faculty members on my campus and elsewhere, it sounds like a lot of folks are feeling the same way, and so I've decided that my theme for the semester will be professional connection.

Why do some instructors feel such a sense of professional isolation? I believe that some of it is just inherent to the traditional classroom teaching model, with one instructor in a classroom full of students. If you spend a large portion of your day teaching, you are obviously not going to have

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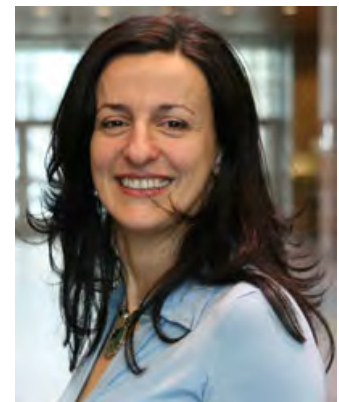
From the AMATYC Regional Vice President

Dear NEMATYC Colleagues,

I hope your semester is going well and you have had a few opportunities to enjoy the beginning of the fall season in the beautiful Northeast! This is the first year that both my children are college students (one away and one at home attending Tompkins Cortland CC and exploring careers in STEAM), so I am filling my evenings of no more games or open houses with video chats and transfer plans.

Everyone at AMATYC is busy getting ready for our *Great Lake – Great Ideas!* Annual Conference on November 14-17 in Milwaukee, WI. I look forward to seeing many of you there and learning about the great ideas you implement in your physical and virtual classrooms.

Early registration closes on September 30, and online or mail-in registrations are accepted only for a week after that. AMATYC offers discounts for first-time attendees, retirees, adjuncts, students, AMATYC members, and single-day registration.



Continued on page 4

NEMATYC 2020 Conference

KEEPING
FOCUSED ON
STUDENTS

NEMATYC's 46th Annual Conference will be hosted at

Massasoit Community College
Saturday April 4, 2020.

To propose a paper or session, go to

<http://nematyc.info/PROPOSAL/>



Greetings from your 2020 conference co-chairs! We are very excited to announce that the Spring NEMATYC Conference will take place at Massasoit Community College in Brockton, Massachusetts this year. We hope to see you on Saturday, April 4th for our annual conference.

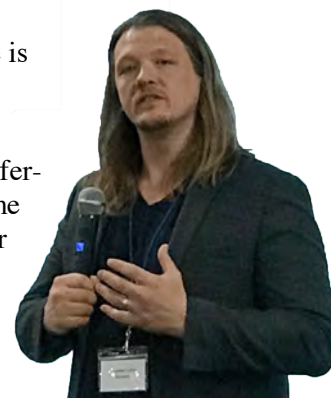
The theme this year is Keeping Focused on Students. Here at Massasoit, our students are not only our mission, but also our greatest resource. We have a long tradition of bringing Peer and Paraprofessional Math Tutors to the Spring Conference as a part of their professional development and mentorship. This year, we are excited that our students will have the opportunity to see behind the scenes how a conference is run. Please consider bringing your institution's future

mathematicians and math educators too.

We hope that you are willing to share your ideas and experiences at the Spring Conference! Please consider giving a presentation or facilitating a forum this year. We welcome both veteran and new speakers, and in keeping with our theme, student presenters. Your presentations foster professional growth and dialogue among our members. Even if you choose not to present, we hope you will still attend. You can establish helpful relations with new colleagues and renew connections with old friends.

Your conference co-chairs,

Kerryn Snyder and Alex Cotter



See the CALL FOR PRESENTERS on the next page.

Conference Theme: Keeping Focused on Students

Suggested Topics: Open Educational Resources, STEM starter programs, Data Science in the first two years, Vision Project course revisions, 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, to name a few.

Submit by:
January 10th

Call for Presenters

46th Annual NEMATYC Meeting

Saturday, April 4th, 2020

Massasoit Community College - Brockton, MA

Submit online!

EARLY DECISION DEADLINE: FRIDAY JANUARY 10th, 2020

SUBMISSION DEADLINE FRIDAY MARCH 20th, 2020

Easiest and preferred method.
Save a tree - submit your proposal online at <http://nematyc.info/PROPOSAL/>

Conference Theme

Keeping Focused on Students

See the previous page for topic suggestions.

Presenter _____

Note: The registration fee for ONE presenter per presentation will be waived. Please specify which one if there are multiple presenters. For multiple presenters, please provide the following information for each presenter. Use additional pages as necessary.

Contact information

College or affiliation _____

Contact Address (College Home) _____

Telephone _____ Email _____

Time preference:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Saturday Morning	Saturday Afternoon	No Preference
Length of presentation	45 Minutes	Suggestions: Oral presentations, Panel discussion, Poster presentations	

Presentation Title: _____

Abstract*: _____

*Normally 50 to 100 words. Please attach on a separate sheet if necessary.

Biography: Please supply a 25 to 50-word biography of each speaker, on a separate sheet.

Equipment/technology needs: _____

If you need additional information or have questions, please call or email Alex Cotter at 508-588-9100 x1654 or ACotter1@massasoit.mass.edu .

Proposal Early Decision Deadline Friday, January 10th, 2020.

Mail to: Alex Cotter Massasoit Community College 1 Massasoit Boulevard Fall River MA 02302	Email submissions are accepted. Please include all of the above information. Send to ACotter1@massasoit.mass.edu . All submissions will be acknowledged by email.
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much time to interact with colleagues on a professional level. In addition to this, teachers don't often get the opportunity to see each other teach. I think many of my colleagues are probably really excellent at their jobs - that's certainly their reputations - but I can't actually attest to this first hand. There are also other factors that I think are encouraged by the typical college model. For example, I'm only required to be on campus during times when I actually have contractual obligations there. I know many folks who set up their schedules to allow them to be off campus as quickly as possible, for a variety of reasons. I'm not complaining – the flexibility of college teaching is one of the best parts of the job. However, there is a trade off in terms of professional connection. Another issue is that many folks are picking up as many classes as they possibly can. This obviously leads to more time in the classroom, and so less time for professional connection. It also means more time prepping, grading, and addressing student questions and concerns. With lots of folks scrambling between several colleges and several campuses trying to eke out a living, it doesn't leave a lot of time for professional connection.

Yet another factor is the dreaded email. Email is an important part of modern professional communication. I know some folks will complain about the amount of email that we all get and the burden of keeping up with it on a daily basis. However, my issue is more with the convenience of it. It is so convenient to conduct business through email that it often becomes the default. I can't tell you how many times I've caught myself emailing someone who is sitting in their office two doors down. That's a missed opportunity for a more authentic professional connection.

So what can be done about this? I think everyone recognizes that professional connection is important and desirable, but we all need to consider where it stands in relation to competing priorities. Because of that, I think we need to be intentional about developing professional connections, and we can start by picking the low lying fruit. Don't eat lunch at your desk. Look for opportunities to conduct business in person or by phone rather than through email. Be active in your college's campus life. That voluntary open meeting may be a bit of a drag, but it is also an opportunity to connect with colleagues.

Going a bit beyond the basics, a few semesters ago I participated in a professional development opportunity that, as a part of our commitment, did some non-evaluative classroom observations. Our group agreed at the time that this was a really powerful experience because it allowed us to see who our colleagues were in the classroom doing the business of teaching. At the time we discussed continuing with the observations on an informal basis because we felt it was so beneficial. Perhaps ask a colleague if you could sit in on one of their classes sometime, and offer to let them sit in on one of yours. You could even quietly prep a class in the back of their classroom while they teach.

Continued on next page

Please visit the conference website to find information about

- Conference Registration
- Conference Hotel Information
- Conference Miniprogram
- Conference App
- Presider Registration (please consider volunteering to preside at a session)
- Free Lumen Learning Pre-Conference Workshop Registration; you can also attend the workshop virtually if you cannot arrive by Wednesday, November 13
- A Guide to Fun in Milwaukee
- A Pocket Guide to MKE

Some AMATYC members have already bought tickets to see Hamilton while at the conference, and others have made plans for a visit to the Harley Davidson Museum. Also, the Bucks are playing their only home game that week on Thursday night. If you prefer to stay inside on Thursday, we hope to have our very own Aisha Arroyo lead a practice session for the Faculty Math League that will take place on Friday, at 3:10PM; we would love to win back the plaque we lost to the Southeast Region last year! More information on the practice session will come your way soon.

Unfortunately, due to work obligations, I will not be able to join you at the NEMATYC Fall Dinner Meeting next week. I will be representing two academic programs at the Annual Manufacturing Day at Tompkins Cortland Community College alongside many local industry partners.

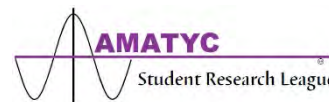
Nominations for the 2020 AMATYC Mathematics Excellence Awards are due by November 1, 2019. Please make sure you nominate an outstanding mathematics educator that deserves recognition. Information for the award can be found at the AMATYC website: <https://amatyc.site-ym.com/page/MathExcellenNomin>.



Registration for the AMATYC Student Mathematics League is open until

September 30. After that, an additional fee is charged for late registrations; no registrations will be accepted after October 31 for Round 1 testing, which starts on October 11 and ends by November 2.

Please try to recruit students for the AMATYC Research League. Registration will begin on January 1, 2020 and will close on March 15.



Make sure you check the SRL webpage in December for the announcements about the spring league: <https://amatyc.site-ym.com/page/StudentResLeague>

Also, please encourage your Department Chairs or Administrators to look into making your college an AMATYC Institutional Member. We recently updated the Institutional Membership perks to include:

Continued on next page

To pull all this back to NEMATYC, I think that one of the greatest benefits of participation in the organization is the opportunities that it provides to develop professional connections. Both the Fall Dinner and Spring Conference give us a time and place to meet with faculty, both at our colleges and at other schools, when there are no other tasks to get in the way. Of course, if you are reading this, I'm guessing you already know that. What I would ask everyone to do is to take this message back to their campuses.

Encourage colleagues who do not normally participate in NEMATYC to attend an event. It will make our organization stronger, and it will also go a long way to combat that feeling of professional isolation.

Alex Cotter
NEMATYC President
Massasoit Community College



10th NEMATYC Fall Dinner Meeting 2019
October 4, 2019
“Data Tripper” Dr. Mark Glickman
Harvard University
More on page 6.

- Two complimentary job ads for faculty or administrative positions on the AMATYC Website
- Access to the AMATYC Leadership Database
- One complimentary early conference registration to the annual AMATYC conference
- One complimentary AMATYC Adjunct Membership
- 50% discount on a one-year, individual AMATYC membership for each employee of the member institution who will be a first-time member of AMATYC
- Announcements about professional development opportunities for mathematics faculty teaching in the first two years of college, including institutes, workshops and conferences
- Access to all AMATYC webinars and their archives
- Complimentary Student Math League membership
- One complimentary Student Research League team membership
- Access to all past SML tests that are available on the AMATYC website

This is an excellent opportunity for affordable professional development. If you need me to send you some more information that you could pass along to your administration, please let me know and I will be glad to follow up. My email is sophia.georgiakaki@amatyc.org.

Do you want to get more involved in AMATYC? We are currently looking for

- Northeast Region Rep. for the Equity Committee
- Northeast Region Rep. for the Teacher Prep Committee
- AMATYC Professional Development Coordinator – this is a three-year term; you can find more information on it at <https://amatyc.site-ym.com/page/AMATYCO-penPositions>

I would love to chat with any of you in person, via email, or on social media. Please join our AMATYC Northeast Affiliates Group at <https://www.facebook.com/groups/1726418054346506/> or stay in touch via email at sophia.georgiakaki@amatyc.org. I am looking forward to hearing from you!

Sophia Georgiakaki
AMATYC Northeast Region Vice President

Quiz Break

What is the highest number of digits of π that have been memorized?

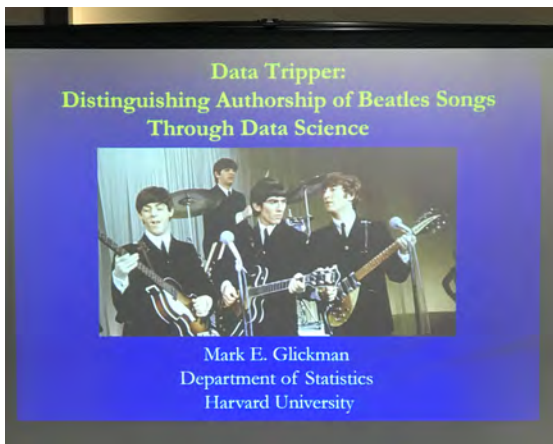
- a) 7,352
- b) 17,913
- c) 31,811
- d) 40,000
- e) 67,890

Which famous boxer was born in Brockton, site of our spring conference?

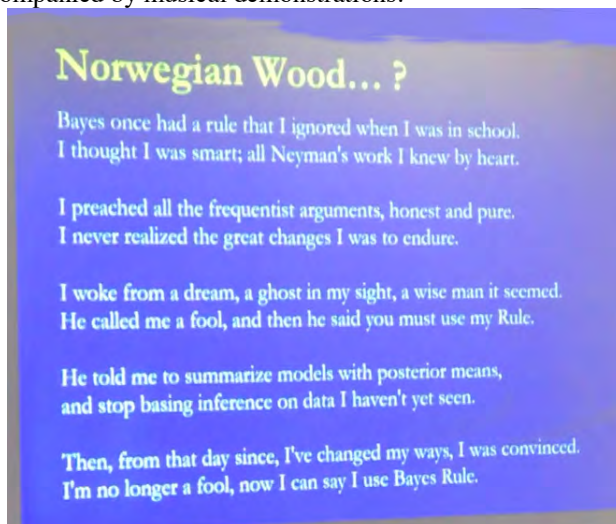
- a) Oscar De La Hoya
- b) Marvin Hagler
- c) Jack Johnson
- d) Rocky Marciano
- e) Joe Louis
- f) Mike Tyson
- g) Mickey Ward

Answers on page 12.

Scenes from the 2019 NEMATYC Fall Dinner Meeting



Mark Glickman, senior lecturer on statistics at Harvard University, explored how statistics can be used to classify musical style, distinguish features particular to specific songwriters, and ultimately address how to predict who wrote a song of disputed authorship. The presentation was accompanied by musical demonstrations.



Mark presented a version of the Beatles' Norwegian Wood with lyrics attuned to a statistically minded audience. Mark speculated that these words were written by John Lennon.

<http://history.nematyc.info/FallDinnerMeeting2019/Bayes.mov>



At the right NEMATYC President Alex Cotter thanks Dr. Glickman and notes opportunities for professional involvement through NEMATYC.



NEMATYC STUDENT MATH LEAGUE

JOIN THE FUN! Offer Your Students a Chance To Compete Nationally and Earn Recognition for Achievement

The first test of the national 2019-2020 AMATYC **Student Math League (SML)** competition will be given at participating two –year colleges between Friday, October 11 and Saturday, November 2. If your college does not currently have a team, consider joining the collegial rivalry among NEMATYC schools! Your involvement can be as simple as just administering the tests, or include facilitating practice sessions and even advising a campus mathematics club. Your students will thank you for providing them with a challenging co-curricular activity and the unique opportunity to participate in a national academic competition.

Dates for the 2019-2020 Student Mathematics League Competition: *Round 1:* Friday, October 11 through Saturday, November 2, 2019
Round 2: Friday, February 21 through Saturday, March 14, 2020

Membership in the Student Math League is free through Sept. 30 for AMATYC institutional members. After that date, a \$15 late fee applies to all registrations, including institutional members. Register your team by Oct. 31 to ensure eligibility for the 2019-2020 competition year. Visit www.amatyc.org to register a team or email Kerryn Snyder (ksnyder@massasoit.mass.edu) for information.

AMATYC also launched a **Student Research League (SRL)** in 2017!

Visit the Student Leagues page at www.amatyc.org to prepare and register a team for the April 2020 research competition.



NEMATYC's STUDENT RECOGNITION 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 in the region receives the Lois A. Martin NEMATYC Student Mathematics League Award.

Highlights from the SML Report for the 2018 – 2019 Competition Year

- ❖ Middlesex Community College took top honors for the highest team score among participating NEMATYC colleges and was recognized with the 2018 - 2019 Lois A. Martin NEMATYC Student Mathematics League Award.
- ❖ Tommy He, of Holyoke CC, earned the top individual score among students from the NEMATYC and Northeast regions.

NEMATYC 2018-2019 Student Math League Individual and College Results*

Rank	Individual Students	College	Score	Rank	College Teams	Score
1	Tommy He	Holyoke CC	52.5	3	Middlesex CC	111.5
5	Wyatt Milgrim	Middlesex CC	29.5	4	Holyoke CC	100.5
9	Richard Jagodowski	Springfield Technical CC	26.0	5	NHTI Concord CC	85.5
4	Dequi Tao	Massasoit CC	24.5	6	Massasoit CC	78.0
13	Hung Tran	North Shore CC	22.0	8	Quinsigamond CC	70.0
14	Daniyar Aubekerov	Bunker Hill CC	21.0	9	Springfield Technical CC	58.0
17	Corbin Grubb	Mount Wachusett CC	19.0	13	Mount Wachusett CC	38.5
18	Benjamin Campbell	NHTI Concorde CC	18.5	14	Bunker Hill CC	36.5
20	Jeffrey Campbell	NHTI Concorde CC	18.0	15	North Shore CC	36.0
				16	Cape Cod CC	34.0
				17	Quincy College	14.0

Coordinator

*Rankings listed for NEMATYC participants in the AMATYC Northeast Region Top 20

Kerryn Snyder (Massasoit Community College), Student Math League

CALL FOR NOMINATIONS

Do you like getting together and having a good time with a great group of people? Are you a mathematics educator? If so, then NEMATYC is the group for you and the NEMATYC Executive Committee wants you to join our enthusiastic, friendly group.

Every year, during the business meeting at the annual conference, NEMATYC holds elections for open positions. In the Spring we will need to fill a number of Executive Board positions.

The positions that will be available are: President, Vice President, Secretary, Two At-large Members

We are looking for you to help us fill these roles. Working with the NEMATYC Board is a rewarding and fun experience, and is a wonderful way to put your professional dedication into action! It's great for you, your department and college, and the New England mathematics community. The time commitment includes attending the annual conference (which hopefully you would attend anyway) and Board meetings that occur three times per year. These meetings are typically held in September, January, and June.

Here is a brief overview of the available positions (see the Constitution at www.NEMATYC.org for a more detailed description of each position).

President

- Two-year term
- Schedule and preside over Executive Committee meetings
- Assume the role of past-president at the conclusion of the term

Vice-President

- One-year term
- Conducts meetings and fulfills the obligations of the President if the President cannot
- Assumes Presidency if the President is unable to continue in office

Secretary

- Two-year term
- Responsible for the official correspondence of the Association
- Take minutes of the meetings of the Association
- Maintain an up-to-date copy of the Constitution

At-Large Member (two to be elected)

- Two-year term
- Attend Board meetings
- *A great way to get involved with NEMATYC!!*

Constitutional Duties of the Executive Committee:

1. Certify nominees as candidates for elected positions.
2. Review and present new business items to the annual meeting.
3. Review all constitutional amendments and bring their recommendations to the annual meeting.
4. Select the site and the date(s) of the annual conference.
5. Maintain the policy manual.
6. Perform all other duties needed to maintain the well-being of the association within the limitations of the constitution.

For questions, information, or to place your name – or that of a colleague – into nomination

Please contact Past President **Dave Henry** at
David.Henry@bristolcc.edu

Quiz Break

1. Easy number theory: What is the smallest number that can be exactly divided by each integer 1 to 10?
2. If you shuffle a pack of cards properly, chances are that exact order has never been seen before in the whole history of the universe. True or False?
3. One million seconds is less than 12 days, so a billion seconds is (a) more than a year, (b) more than 10 years, (c) more than 17 years, (d) more than 31 years.
4. The name of the firm Google originated from a misspelling of googol, 10^{100} . True or False?

Answers on page 12.



The NEMATYC Conference 2020: 40, 30, 20, 10 years, and... 1 Year Before

NEMATYC 1980

The NEMATYC Annual Spring Meeting for 1980 was chaired by John Tobey, and the theme was, **INNOVATIONS IN THE TEACHING OF MATHEMATICS**. It was hosted by North Shore CC and facilities were provided by Pine Manor College in Chestnut Hill, Massachusetts. The date was March 29 and the fee was \$10.

Keynote

- **Perhaps The Most-Used Technique In Mathematics**, Howard Eves, University of Maine

Program

- **Remedial Courses In Mathematics**, Panel Discussion Marilyn Frankenstein, U Mass, Boston, Herb Gross, Bunker Hill CC, Ira Rubenzahl, Greenfield CC, Harvey Leboff, Mass Bay CC
- **Math Laboratories / Tutorial Centers**, Panel Discussion Bruce Bell, Cape Cod CC, Marianne Gardner, RI JC, Hank Harmeling, North Shore CC
- **The Scholar's Creed**, Howard Eves, U Of Maine
- **Competency-Based And Self-Paced Courses In Mathematics**, Panel Sam Robinson, New Hampshire Voc-Tech Coll. Cliff Benson, Mohegan CC, Ted Carlson, Bunker Hill CC
- **Placement Testing In Mathematics**, Joe Menard, R I JC, Charles Adie, Northern Essex CC
- **Computer-Assisted Instruction**, Frank Deane, Berkshire CC, John Kelly, Pine Manor College

NEMATYC 1990

The 1990 meeting was chaired by John Jacobs at Massachusetts Bay Community College, with his usual panache. The theme was **Math 4 the Fun of It**. There were five presentations each hour, computer workshops, free software for all participants, two poetry readings, and two songs! There were two seatings for lunch! Those not eating were participating in Math 4 the Fun of It, a collection of songs and poetry. And there were continuous showings of films on Chaos and on Fractals, and tapes from the ACM SIGGRAPH. (Association of Computing Machinery Special Interest Group on Graphics)

Also, John actually printed a 124 page bound proceedings of the meeting. In the introduction, John thanked MBCC President Roger Van Winkel and the Mass Bay Foundation for support and the financing of the proceedings.

A sample of the 30 presentations are

- **An Integer Approach to Teaching Linear Algebra**, M. S. Vijaya Kumar John Abbott College, Quebec
- **Chaos and Fractals - What's All the Fuss**, Stephen Ingram, Leonard Gambler, Norwich University
- **Help Your Students Become Mathematicians!**, Roberta Kieronski, University of New Hampshire at Manchester
- **Local Properties of Low Degree Polynomials, Application to Rational Functions**, Francesca Schremmer, Westchester University, Alain Schremmer, Community College of Philadelphia
- **Number Theory, Developmental Mathematics and the Discovery Approach**, Elliot Benjamin, Unity College
- **Statistical and Finite Mathematics Computer Packages**, Domenico Rosa, Post College
- **Survival of Surnames**, Donald Blackett, Boston University
- **Using Contingency Tables to Determine Bayesian Probabilities: An Alternative Strategy**, Eike Satake, William Gilligan, Philip Amato, Emerson College
- **What Should the Textbook Do?**, Gilbert Strang, Massachusetts Institute of Technology
- **What To Do When People Lie: The Statistician's Problem**, Solomon Garfunkel, COMAP

NEMATYC 2000

NEMATYC 2000 was held at Bristol Community College in Fall River, Massachusetts, on Friday and Saturday, April 7 and 8, 2000. This was the 26th Annual Meeting. Vice presidents and program chairs were Bernice Bowdoin and Susan Hoy of Bristol Community College.

Besides a great program other events enjoyed by the participants included the following.

Friday Evening

- A visit to the Fall River Historical Society.
- A reception with Hors D'oeuvres at the Quequechan Club, followed by dinner.
- The after dinner speaker was Jules Ryckebusch, Bristol Community College faculty member and world renowned expert on Lizzie Borden, who gave a fascinating lecture on that subject.

Saturday After-Lunch Plenary Session

- Past President Ted Panitz, Cape Cod Community College, led the members in a great discussion entitled *What we should teach and how we should teach it.*

A sample of the presentations is

- **Teaching Statistics in an Online Environment**, Dr. Joyce Oster, Johnson & Wales University
- **What is Being Taught in K-12 and its Effect on Community College Math Curriculum**, Aileen Mack, Director of Mathematics Curriculum, Fall River School System
- **Statistical Graphics: Using Microsoft Excel within PowerPoint Presentation Software**, Gary Tataronis, Kate MacDonald, Tracy Wong, Massachusetts College of Pharmacy and Health Sciences
- **Statistics and the TI-83**, Lois Martin, Massasoit Community College
- **A Reformed College Algebra Course**, Linda Kime, University of Massachusetts Boston

NEMATYC 2010

NEMATYC 2010 was held at MassBay Community College, Wellesley, MA on Friday and Saturday, April 9, 10, 2010. The conference had been held at MassBay in 1979 and 1990 also. The theme was "Connections". The conference chair was Meredith Watts of MassBay. Besides a great program, attendees heard great plenary talks on Friday evening and at lunch on Saturday.

A sample of the presentations:

Featured Saturday Lunch Speaker

Jay Lehmann College of San Mateo
Don't Believe Everything You Hear

Friday Night Speaker

Matthew Haas Corning Community College
The Re-Funification of Math

- **One-Credit Mathematics Review Offers Students an Alternative**, Marsha Pease North Shore Community College
- **Teaching Math Using Smartboard Technology**, Nancy Zuber Berkshire CC
- **Developing Quantitative Literacy**, Brian Beaudrie Plymouth State University, Emily Ricard Plymouth State University, Barbara Boschmans Plymouth State University
- **Integrating Scientific Computation Into An Undergraduate Mathematics Program**, Adam Hausknecht U Mass Dartmouth
- **The "New Life" Project**, Robert Cantin Mass Bay CC, Philip Mahler Middlesex CC
- **Making Time to Teach Civic Issues in Mathematics Courses: Finances 101**, Magdalena Luca Massachusetts College of Pharmacy and Health Sciences
- **25 Reasons U'D Love UDL**, Philomena D'Alessandro Quinsigamond Community College
- **Two Free (or Nearly Free) Statistics Textbooks**, Mary Moynihan Cape Cod Community College, Mary Sullivan Massasoit CC



NEMATYC Executive Committee - 2010

NEMATYC – One Year Ago

NEMATYC 2019 was held at Quincy College, Quincy, MA, on Friday and Saturday, April 5-6, 2019.

The theme was “Mathematics in Action”.

The conference chair was Elena Heineke of Quincy College.

Participants enjoyed a program, with timely presentations, networking, awards, and a business meeting.

Friday afternoon featured a tour of the John F. Kennedy Library, followed by a reception at a nearby restaurant.

The keynote address was by Larry Davidson, Harvard University, retired, *The Mathematics of Elections: Who Wins When Nobody Gets a Majority of the Votes?*.

The presentations included

- **The Normal Distribution: Where Does it Come From?**,
Nathaniel Brown, Quincy College
- **The Power of Simulation and Applications in Early College Mathematics**
Roser Gine, Lesley University
- **Are Irrational Numbers the Foundation of Natural Law?**
Paul Felker, Quincy College
- **Flipping Leads to Ferris Wheels, Motion Sensors, Battery Operated Cars and More!**
Anne O’Shea, North Shore Community College
- **Open Resources of Boston Bike Share Data for Statistics Instruction**
Tingting Fang, North Shore Community College
- **Social Choice Theory...in Practice!**
Billy Jackson, North Shore Community College
- **NHTI’s 100% Online Co-Requisite Math Course: Expanding Access and Supporting Gateway Course Completion in Year One**
Ryan DeFronzo, New Hampshire Technical Institute



Join NEMATYC

Not a member of NEMATYC?

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

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

Visit the NEMATYC Website

Webmaster **Mary Sullivan**, Cape Cod CC, maintains the NEMATYC website.

Go to <http://www.nematyc.org> and browse the links: Conference, Executive Board, Membership, On-line Newsletters, Member Colleges, Mathematics Associations, History, Documents, Job Opportunities, E-mail for NEMATYC.



Did You Know?

The National Association for Developmental Education (NADE) is now known as the National Organization for Student Success (NOSS).

NEMATYC EXECUTIVE BOARD – 2018-2020

President	18-20	Alex Cotter	Massasoit CC	ACotter1@massasoit.mass.edu
Vice President	19-20	Billy Jackson	North Shore CC	wjackson@northshore.edu
Past President–acting	18-20	Dave Henry	Bristol CC	David.Henry@bristolcc.edu
Secretary	18-20	Autumn Alden	Bristol CC	Autumn.Alden@bristolcc.edu
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At-Large Member	18-20	Aliza Miller	Middlesex CC	MillerAK@middlesex.mass.edu

Appointed NEMATYC Positions

Conference Chair	19-20	Kerryn Snyder, Alex Cotter Massasoit CC		
Past Conference Chair	19-20	Elena Heineke	Quincy College	
Membership Chair	18-20	Maria Arambel	Middlesex CC	ArambelM@middlesex.mass.edu
Student Math League Crdintr	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

Answers to Quiz Break on Page 5.

What is the highest number of digits of π that have been memorized? Answer: 67,980

In 1981, an Indian man named Rajan Mahadevan accurately recited 31,811 digits of pi from memory.

In 1989, Japan's Hideaki Tomoyori recited 40,000 digits.

The current Guinness World Record is held by Lu Chao of China, who, in 2005, recited 67,890 digits of pi. It took him 24 hours, 4 seconds to recite all the digits.

Note: *Stressing the unknowability of pi, I once told a class of 25 trigonometry students that they could earn an A for the class if they could recite, in front of the class, the first 500 digits of pi. Two students managed this after about two weeks of study. Fortunately for my sense of assessment integrity, they were good students anyway. Editor*

Which boxer was born in Brockton, site of our spring conference? Answer: d) Rocky Marciano

Rocky Marciano was born September 1, 1923 in Brockton, MA.

As a side note, Marvelous Marvin Hagler (b) was born in Newark NJ May 23, 1954, but his family moved to Brockton, MA after the Newark riots of 1967.

As a side note, Micky Ward (g) was born in Lowell, MA.

Answers to Quiz Break on page 8.

1. 2520
2. True; 52! Is more than the number of atoms in the earth.
3. (d) more than 31 years
4. True – look it up!



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NEMATYC NEWSLETTER
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