



# NEMATYC NEWS

The News is available online at [www.NEMATYC.org](http://www.NEMATYC.org)

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



**Fall Dinner & Speaker  
Registration deadline  
Friday Oct 15–Page 3**

## –ANNOUNCING– NEMATYC 2021 Conference

NEMATYC’s 47<sup>th</sup> Annual Conference will be hosted by  
**North Shore Community College**  
**Saturday April 9, 2022**

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



### From the NEMATYC President

Hello colleagues!

Over just the past few months, I’ve taught students via video conference, VC & face-to-face mix, and asynchronously online. I’m sure many of you are in the same boat having taught a variety of courses in a variety of new formats. What a time this has been in the world of teaching and learning.

It’s a great feeling for me to once again see students in the classroom ~~face-to-face~~ mask to mask. However, I still look back with appreciation at what I’ve learned and gained as a teacher through the shift to online learning during the COVID pandemic. One example of that is gaining fluency and confidence with video recorded lectures. I had a challenging couple of weeks in September which kept me from holding several classes. Falling so far behind in these courses would have caused me a lot of stress in pre-COVID semesters, but I

*Continued on page 5*

### From the AMATYC Regional Vice President

Dear NEMATYC Colleagues,

I hope your quarter or semester is going well. This is my last message to NEMATYC, as I finish my second term serving the AMATYC Executive Board.

Due to increased duties at my college, I had to make the tough decision to not run for a third term. It has been an honor and a privilege working with everyone and learning from all of you. Thank you for the support, and I hope to see many of you in future regional and national events.

The conference is fast approaching, and AMATYC has been busy! There are many important AMATYC events and updates happening soon. These include the following:

**Fired Up for Math!** The AMATYC Annual Conference is only a few weeks away! It is in Phoenix October 28th - 31<sup>st</sup>;



*Continued on page 5*

**NEMATYC's 47<sup>th</sup> Annual Conference**  
**Saturday, April 9, 2022**  
**North Shore Community College**  
**Lynn, MA**



The Spring 2022 NEMATYC Conference will take place at North Shore Community College in Lynn, MA. We hope to see you on Saturday, April 9, 2022, for this annual event!

It will have been **3 years** since the last time NEMATYC gathered in person for an annual conference!

I hope many of you are as thrilled as I am to gather once again and share the many experiences we have learned over these past 3 most interesting and challenging years. It's going to be quite a reunion to see so many of you once again.

We are looking for people like you to come share your ideas and experiences! We welcome both veteran and new speakers to consider giving a talk this year. Your presentations help sustain a cycle of renewed professional growth among our members. Even if you choose not to present, we hope you will still attend. You can establish long-lasting relationships with new colleagues across the region and renew connections with old friends.

To propose a paper or session, go to: <http://nematyc.info/PROPOSAL>. The early acceptance deadline is Friday, January 28, 2022, and the final deadline for proposals is Friday, March 11.

NOTICE: North Shore Community College policy requires all attendees of the 2022 NEMATYC Conference to be fully COVID vaccinated. College policy also will require a mask mandate. Any more information on these requirements will be available in the conference registration. We are also prepared to adapt to whatever unexpected curveballs the world might throw at us this Spring, like it did in 2020!

# The NEMATYC Fall Dinner/Talk is BACK!

Please RSVP with count to: Autumn Alden at [autumn.alden@bristolcc.edu](mailto:autumn.alden@bristolcc.edu) by Friday, October 15

## 2021 FALL DINNER & SPEAKER

FRIDAY, OCTOBER 22, 2021

5:30pm - 6:30pm Cocktail Hour  
6:30pm Dinner Served  
7:00pm - 8:00pm Talk and Q&A

Featured Speaker: Dr. Nathaniel Whitaker  
University of Massachusetts, Amherst

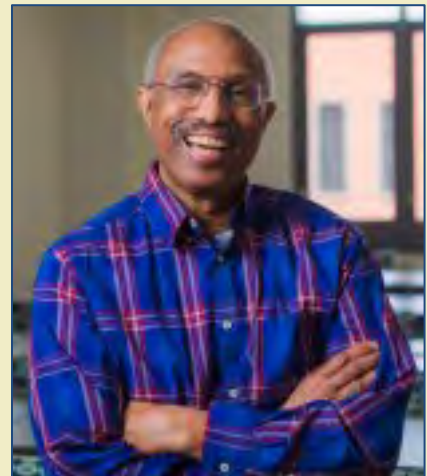
*From Segregation to Department Head with a Lot  
of Help Along the Way*

**WHERE:** Copper House Tavern -- 380 Winter St, Waltham, MA

**WHAT:** Choice of plated entree. Accommodations can be made in advance for anyone with dietary restrictions.

**HOW MUCH:** \$20 per person (same for members or non-members).

Payable by cash, check (written out to NEMATYC), or venmo/PayPal on day of event. Free for current Project ACCESS fellows. Cash Bar.



Please RSVP with count to: Autumn Alden at [autumn.alden@bristolcc.edu](mailto:autumn.alden@bristolcc.edu) by Friday, October 15

**Nathaniel Whitaker** is a Professor and Head of the Department of Mathematics and Statistics, University of Massachusetts Amherst.

To quote from Professor Whitaker's website, "Professor Whitaker's recent research involves problems in math biology such as the growth of tumors." His interests include the larger welfare of students. Professor Whitaker supervised the thesis of the first African-American to receive a Ph.D. in mathematics at the University of Massachusetts, and he was part of a 9-year program called AIMS, which involved teaching accelerated math to African-American students in the Amherst school system.

## NOTICE

North Shore Community College policy\* will require all attendees of the 2022 NEMATYC Conference to be fully COVID vaccinated.

College policy also will require a mask mandate.

\*Associated Press article in the Boston Globe, updated September 21, 2021:

### **Massachusetts Community Colleges to Require Vaccinations**

BOSTON (AP) — Students, faculty, and staff at all 15 Massachusetts state community colleges will be required to be fully vaccinated against the coronavirus by January, the schools' presidents said. ...

# Call for Presenters

47<sup>th</sup> Annual NEMATYC Meeting

**Saturday – April 9, 2022**

North Shore Community College - Lynn, MA

**EARLY DECISION DEADLINE: FRIDAY JANUARY 28<sup>th</sup>, 2022**

**SUBMISSION DEADLINE FRIDAY MARCH 11<sup>th</sup>, 2022**

To propose a presentation please use the online form at

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

Submit by:  
January 28<sup>th</sup>

Submit online!

We are looking for people like you to come share your ideas and experiences! We welcome both veteran and new speakers to consider giving a talk this year. Your presentations help sustain a cycle of renewed professional growth among our members.

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, virtual teaching and learning, to name a few.

**Proposal Early Decision Deadline Friday, January 28<sup>th</sup>, 2021.**



was able to send video lectures to my students that basically kept us right on track. It's a new ability that I can keep with me throughout the rest of my teaching career. It's been a silver lining during this generally difficult experience. (And I'd be remiss to not mention that equally as important as my gained comfort in recording video lectures is the skill students have acquired over the past 18 months in their ability to learn via video lectures!)

I'm sure all of you have much more fascinating examples of your own that you or your students have gained and learned about teaching during the shift to online learning. The opportunity we have to share those insights with each other through our supportive NEMATYC community, especially at our annual conference, is a blessing I look forward to every year but this year more than any other.

It's through annual NEMATYC conferences that I've learned in the past about:

- Flipped classrooms courtesy of **Anne O'Shea**
- OERs and writing questions in MyOpenMath courtesy of **Joe Manthey** and **Kim Ward**
- Learning communities courtesy of **Aaron Levin**
- Corequisite models courtesy of **Jim Sullivan, Autumn Alden, John McColgan**, and many others
- Eye-opening data on the passing and attrition rates in developmental course sequences courtesy of **Phil Mahler**.

Those are just a few of the many ideas I've learned through NEMATYC which have transformed the way I think about community college education. I eagerly anticipate what innovative or topical presentations this year will join that list.

I look forward to continuing the professional growth, and also the personal relationships, I've come to cherish through NEMATYC this academic year. I hope to see many of you at our Fall Dinner and/or Annual Conference this year to join in that professional growth and relationship building with me.

Billy Jackson  
NEMATYC President  
North Shore Community College

discount registration ends October 7<sup>th</sup> – register now! Please check the conference website. <sup>1</sup>We are thrilled to be back together – come to hear presentations, meet new friends, and reconnect with colleagues.

Are you presenting or presiding at the conference? Attend the webinar **Presenters & Presiders – Getting Fired Up for Phoenix** on October 14 to learn more about the new conference app, social media, and the evaluation procedure. See how to upload your documents to the app. Ensure you are prepared for your presentation, including understanding the equipment that will be in your room, or when and where to set up your poster. Presiders, get instructions for picking up your packet and completing your duties. Register here<sup>2</sup>.

Remember that our region is the current holder of the **Faculty Math League** Award. If you are coming to the conference and would like to help us keep the award, please consider practicing with us on Thursday night and attending the session on Friday at 4:05PM. Please keep an eye at your email for more information closer to the conference.

Registration is still open for the **Student Math League**. The fall competition starts on October 23. Please consider offering this excellent opportunity to your students. Register for the 2021-2022 SML here<sup>3</sup>.

Get involved in AMATYC; share your talent with us. AMATYC is searching for the next **Webinar Coordinator**. Find more information about the position and how to apply here<sup>4</sup>.

Interested in research? Our next **Faculty Meet-Up** is scheduled for October 7. Moderator Aradhana Kumari will continue the conversation about research on mathematics teaching and learning at two-year colleges. You can register for the webinar here<sup>5</sup>.

Also remember that myAMATYC is available for no cost to all interested until December 31, 2021. Please consider contributing to the many conversations that are happening on all different – and essential – aspects of mathematics education in the first two years of college. Join and encourage others to join at <https://my.amatyc.org/>.

The AMATYC online shop is now open. You can purchase your favorite AMATYC item with either the AMATYC logo or the conference logo here<sup>6</sup>.

I am beyond excited to see many of you in Phoenix. Please let me know if you have any questions or would like further information.

Sophia Georgiakaki  
AMATYC Northeast Vice President

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<sup>1</sup> <https://amatyc.org/general/custom.asp?page=2021ConfHome>.

<sup>2</sup> <https://amatyc.org/events/EventDetails.aspx?id=1548895>

<sup>3</sup> <https://amatyc.org/page/StudentMathLeague>

<sup>4</sup> <https://amatyc.org/page/AMATYCOpenPositions>

<sup>5</sup> <https://amatyc.org/events/EventDetails.aspx?id=1558226>

<sup>6</sup> <https://www.cafepress.com/amatyc>



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# 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. In the Spring we will need to fill a number of Executive Committee positions. The election is held during the business meeting at the annual conference. All nominations must be submitted by the end of the day on Thursday, April 1, 2022.

The positions that will be available are President, Vice President, Secretary, Treasurer, and Two At-large Members. We are looking for you to help us fill these roles. Working with the NEMATYC Executive Committee 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 Committee 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](http://www.NEMATYC.org) for a more detailed description of each position).

- |  |                 |
|--|-----------------|
| <b>President</b>   | Two-year term   |
| <ul style="list-style-type: none"><li>• Schedule and preside over Executive Committee meetings</li><li>• Assume the role of past-president at the conclusion of the term</li></ul>   |                 |
| <b>Vice-President</b>  | One-year term   |
| <ul style="list-style-type: none"><li>• Conducts meetings and fulfills the obligations of the President if the President cannot</li><li>• Assumes Presidency if the President is unable to continue in office</li></ul>              |                 |
| <b>Secretary</b>   | Two-year term   |
| <ul style="list-style-type: none"><li>• Responsible for the official correspondence of the Association</li><li>• Take minutes of the meetings of the Association</li><li>• Maintain an up-to-date copy of the Constitution</li></ul> |                 |
| <b>Treasurer</b>   | Three-year term |
| <ul style="list-style-type: none"><li>• In charge of all the financial records and funds of the Association.</li><li>• Give financial reports at all Executive Committee and NEMATYC business meetings</li></ul>                     |                 |
| <b>At-Large Member</b> (2 positions)   | Two-year term   |
| <ul style="list-style-type: none"><li>• Attend and participate in Executive Committee meetings</li><li>• <i>A great way to get involved with NEMATYC!!</i></li></ul>   |                 |

## 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 **Alex Cotter** at  
[acotter1@massasoit.mass.edu](mailto:acotter1@massasoit.mass.edu)

The following are the current NEMATYC positions appointed by the Executive Committee. If you have an interest in serving in one of these positions advise Past President Cotter at [acotter1@massasoit.mass.edu](mailto:acotter1@massasoit.mass.edu).

- SML Coordinator (22-24)
- Webmaster (22-24)
- Newsletter Editor (22-24)
- Social Media Coordinator (22-24)
- Membership Coordinator (22-24)

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## Thank You!

I plan to retire from the position of NEMATYC Newsletter Editor with this edition. I hope to stay active in NEMATYC, if only by attending meetings (I attended my first NEMATYC meeting at Springfield CC in 1984—at the spring meeting that will be 38 years ago). I want to say thank you to many people—too many to try to list, regrettably. These are among the people who added so much to a long career for me.

I want to say THANK YOU to all the NEMATYC volunteers I have seen in my time of involvement with NEMATYC. There is no way to list them all, and any list unintentionally slights someone. But I want to say that if a reader browses through the history page at the NEMATYC web site, or browses through past newsletters, that reader should take note of the individuals listed as members of the NEMATYC Executive Committee. Some have given more than others, but hopefully all received perhaps unrecognized professional rewards as they appreciate their profession in a wider context than many. Thank you, NEMATYC contributors.

As well, take note of those who presented at our NEMATYC meetings. The lifeblood of professional development is the shared experiences, trials, and tribulations of our colleagues. Presenting is its own reward, as sharing is in general. Presenting is a challenge to look carefully at ourselves and what we are doing. THANK YOU, NEMATYC presenters.

Sophia Georgiakaki, Tompkins Cortland Community College, has served two two-year terms as the AMATYC Northeast Region Vice President. This editor knows from experience how much work and dedication is involved in doing a good job as a regional vice president, and Sophia has done a great job. I am appreciative of the great material she has always promptly sent for this newsletter’s “From the AMATYC Regional Vice president” column.

You may recall that Sophia participated in the Faculty Math League at the AMATYC 2019 conference in Milwaukee to keep the “famous” FML trophy in the Northeast region. Aisha Arroyo, Middlesex CC, NEMATYC treasurer, placed first, and Sophia placed sixth. Pictured at the right, Sophia displayed the FML Trophy at the breakfast session at the meeting.



Ευχαριστώ πολύ, Σοφία

THANK YOU very much, Sophia.

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Some filler ☺ ...

Went to YouTube and searched on “mathematics.” Never did that before. Found videos on “the Story of Maths”, “Why most people are bad at mathematics,” even “the Riemann Hypothesis, Explained”, and videos on Kurt Gödel’s Incompleteness Theorem. Interesting to say the least. I could spend a lot of time there.

Went to YouTube and searched on “pi song.” Saw stuff I have seen years ago, but also discovered that this theme is still attracting people. Long ago I had two students in a trigonometry class memorize the first 500 digits of pi, because I had promised an “A” for anyone who did.

### Euler’s Identity

$$e^{i\pi} + 1 = 0$$

I’m sure I put this in some earlier newsletter, and most likely you have seen it somewhere, but when thinking of “kool” things I have seen, this always comes to mind.

It combines the transcendental numbers  $e$  and  $\pi$  with the “imaginary”  $\sqrt{-1}$  to arrive at an integer value—magic. Then it adds in the multiplicative and additive identities.

The famous physicist Richard Feynman called it “the most remarkable formula in mathematics”.



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## CAMPUS NEWS

### QUINSIGAMOND COMMUNITY COLLEGE

Philomena D'Alessandro reports the following on behalf of the QCC Math Department:

**Retirements/Honors** We would like to congratulate the following faculty members on their recent retirement. Andreama Grimaldo retired as of January 2021, and Rafael Vicente and Carol Rinaldi retired as of May 2021. All three were awarded Professor Emerita/Emeritus status and plan to continue teaching at QCC as adjunct faculty.

**New Faculty** We are pleased to welcome two, new full-time faculty members for Fall 2021: Eduardo Ramirez and Steven Gambino.

**New Job Opportunity** QCC is conducting a search for another full-time mathematics faculty member to join our energetic and dedicated team for the Spring 2022 Semester. If you or someone you know is interested, please refer to the QCC Human Resources page at <https://www.qcc.edu/human-resources> to find out more about this employment listing. The search closes on October 17.

**New Degree** We are excited to announce our new degree program, Liberal Arts – Mathematics Option – Associate in Arts, which started in Fall 2021. In addition to the option of completing the program face-to-face on the Worcester (Main) Campus, more than 80% of the program can be completed fully online (including Calculus I, Calculus II, Probability & Statistics for Engineers and Scientists, Differential Equations, and Linear Algebra).

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### MASSASOIT COMMUNITY COLLEGE

#### **Lois A. Martin Mathematics Award**

As reported in the Spring, 2015 issue of this newsletter, Cliff Martin, Massasoit CC, created a scholarship in the name of his wife and our past colleague, Lois Martin, who passed away in 2012. In 2014 he also created the Math Team Board (shown) mounted at Massasoit CC, to provide a record of local math contest winners.



Shown at the 2014 dedication ceremony, NEMATYC Student Math League co-moderators Kerry Snyder and Andrea Torres, with Cliff Martin.



Lois Martin, AMATYC Teaching Award Winner, 2007

Since then the Lois A. Martin Mathematics Award (LAMMA) Endowment has been awarding \$1,050 in scholarships each academic year. Due to COVID-19, the annual AMATYC mathematics contests did not take place in 2020 and therefore Kerry Snyder selected and presented this year's LAMMA to an outstanding young woman from Pakistan who will be transferring to a four-year college to major in physics.

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## *The NEMATYC Conference 2022: 50, 40, 30, 20, 10 years, and... 1 Year Before*

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### “NEMATYC” 1972

Wow—I have added **FIFTY** years ago to this item I have been doing for many years. 1972 is as far back as my records go. Or more precisely, the records I inherited from Joe Menard of the Community College of Rhode Island in March 1989.

But truth be told, there was no NEMATYC in 1972. But there was MMATYC, the Massachusetts Mathematics Association of Two-Year Colleges, and a meeting of MMATYC was held on Saturday, November 18, 1972, at the Campus Center Building of UMass/Amherst. (MMATYC now refers to Maryland’s AMATYC affiliate.)

The fee was \$10 for members, and \$12 for non-members. The president was Frank Deane of Berkshire Community College.

MMATYC morphed into NEMATYC, and you can read about it starting in Frank Dean’s “Musings” referred to below. If you are the history buff I am, I will encourage you to download a scan of a flyer about the 1972 meeting, at [https://history.nematyc.workers.dev/NEMATYC\\_1972.html](https://history.nematyc.workers.dev/NEMATYC_1972.html), and further I encourage you to read “Musings and Memories of MMATYC” by Frank Dean, MMATYC’s first president, at [https://history.nematyc.workers.dev/MMATYC\\_musings.html](https://history.nematyc.workers.dev/MMATYC_musings.html), where you can read about even earlier events and names, starting as early as 1967.

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### NEMATYC 1982

The Annual Spring Meeting was held at Community College of R I, with Joe Menard as conference coordinator, on March 20, 1982. The offerings were:

#### Keynote

- Computer Visualization of the 4th Dimension, Thomas Banchoff, Brown University

#### Presentations

- **A Math Lab in Action**, Edward Madonna, CCRI
  - **Supertrigonometric Functions**, Michael Latina, CCRI
  - **Remedial And Developmental Mathematics at Springfield Technical Community College's Mathematics Center**, Robert Yawin, Springfield Tech CC
  - **Math Anxiety**, Jean Smith, Middlesex CC
  - **Team Teaching Approach to Self-Paced Foundation Courses**, Henry Pronovost, Mattatuck CC, Phillip Glynn, Mattatuck CC
  - **Pass Go - Do Not Fail**, Edward Madonna, CCRI
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### NEMATYC 1992

This meeting was held at the Lowell (CITY) campus of Middlesex Community College, Lowell, Massachusetts, on Saturday, March 14. The theme was **Teaching in a Changing Environment**.

In addition to the meeting, NEMATYC offered an NSF funded workshop **Teaching Calculus with a Computer Algebra System (CAS)**. This workshop was conducted by Don Small, of the United States Military Academy at West Point, who received the grant and provided the opportunity to NEMATYC. It was held on Thursday, May 21 through Saturday, May 23. The 24 participants stayed at the Lowell Sheraton Inn, next to the Middlesex Community College campus, and the sessions were conducted at the college's campus. Rooms and meals were paid by the grant.

For logistical reasons this writer did the Newsletter in 1992 and created the unofficial NEMATYC logo at that time.

NEMATYC President was Jack Keating, Massasoit Community College.  
Philip Mahler and Regina Goodwin cochaired the program committee.

Joe Menard, CCRI (emeritus) was an invited guest, and turned over his **History of NEMATYC to 1989** to Philip Mahler.

A KEYNOTE PRESENTATION was given by Margaret Kenney, The Math Institute, Boston College, entitled **Discrete Mathematics in the K-12 Curriculum - Implications for Higher Education**.

Some of the presentations were:

- **A Modular Approach to Teaching Mathematics**, Michael Bradley, Merrimack College
- **Casio fx-7700 Graphing Calculator Workshop for Experienced Users**, John Souther, Whitman-Hanson Regional H.S.
- **Collaborative Learning in Developmental Math Classes**, Linda Cavanaugh, Melinda Gougeon, Susan MacLeod, Carol Pike, Peter Rosnick, Greenfield Community College
- **Do students still need the teacher? Yes, but not necessarily in the Classroom**, Jon Massaro, Tunxis Community College, William Brodnitzki, Northwestern Connecticut Community College
- **Helping Students Learn Math Through Writing**, Ted Panitz, Cape Cod Community College
- **Integrating Math and Physics: Educating Underprepared Learners for a Technical World**, Darlene Miller, Clifford Chapin, Vermont Technical College
- **Number Theory, Liberal Arts Mathematics, and the Discovery Approach**, Elliot Benjamin, Unity College
- **Teaching the Solving of Mathematics Word Problems**, Aniko Giordano, Middlesex Community College
- **Texas Instruments TI-81 Workshop for Beginners**, Roberta Kieronski, University of New Hampshire - Manchester
- **Using Classroom Research in the Mathematics Classroom to improve the teaching/learning process**, Helen Seery, James Sullivan, Massachusetts Bay Community College
- **Using the Standards to Increase Critical Thinking Skills of College Students**, Betsey S. Whitman, Framingham State College

### NEMATYC 2002

NEMATYC 2002 was held at North Shore Community College in Danvers, Massachusetts, on Friday and Saturday, April 5 and 6, 2002. This was the 28th Annual Meeting. Vice president was Bernice Bowdoin of Bristol Community College, and the Conference Chairperson was Judy Carter of North Shore Community College.

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

Friday Evening

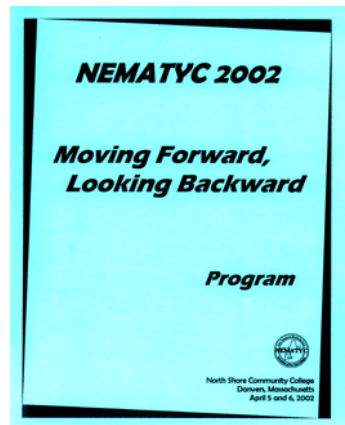
- Dinner at Jake's Grill
- Philip Mahler, AMATYC President and Jack Keating, AMATYC Northeast Vice President, spoke briefly at the dinner; Phil Mahler received a NEMATYC Distinguished Service Award

Saturday After-Lunch Speaker

- Dr. James Tattersall, Providence College spoke about the Lucasian Chair of Mathematics at Cambridge University

Some of the 29 talks on the program at this meeting.

- Probability Logic: An Alternative Approach of the Bayes' Rule; Dr. Eiki Satake and Dr. Philip Amato, Emerson College
- Bringing It Together with Two-Sample t Test; Lora Connelly, North Shore Community College
- Solving Equations With the TI-83 or TI-83+; Marie DuBois, Central Connecticut State University
- Freeware and Inexpensive Software from the Web; Chris Chepiga, John Jacobs, Mass Bay Community
- College Automatic Homework and Testing System: Commercial Presentation; Emily Omlor, Quant Systems, Inc.
- Self-Regulated Learning in the Developmental Math Classroom; Adele Miller, Rivier College
- eduSpace: Houghton Mifflin's New Online Learning Tool for Developmental Mathematics: Commercial Presentation; Michael Busnach, Maureen Duffy, Chris Hyde, Ben Rivera, Houghton Mifflin
- Pascal's Palindrome aka Pascal's Triangle; Suellen Robinson, North Shore Community College
- CBL - Calculator Based Labs; John Jacobs, Mass Bay Community
- CollegeBrain Science and Learning Math; Linda Rottman, University of Maine
- Nonstandard Problems in Basic Mathematics and Elementary Algebra; Sadie Bragg and Geoffrey Akst, Borough of Manhattan Community College
- Service Learning, Fisheries Biology, and Technology in the Teaching of Statistics; Barry Woods, Unity College



No photos from the 2002 North Shore meeting, but our North Shore colleagues hosted again in 2013, when we found the pavement outside one of their then-new Danvers campus's buildings doing double duty as the  $x$ - $y$  plane!



- Math Pro: Technological Support for Developmental Math: Commercial Presentation; Prentice Hall Developmental Math Group
- An Innovative Quantitative Reasoning Course; Mark Pawlak, UMass Boston
- Excel(lent) Scrolling; David Cox, Southern New Hampshire University

## NEMATYC 2012

NEMATYC 2012 was held at NHTI-Concord's Community College, Concord, NH on Friday and Saturday, March 30-31. The theme was "Math: Conquered in Concord". The conference chair was **Judy King** of NHTI.

Besides a great program, attendees enjoyed Friday evening appetizers at the Kimball Jenkins Estate, and at lunch on Saturday enjoyed a talk by one of NEMATYC's founders, **Herb Gross**.

A small sample of the 31 presentations are:

Ready for "New Life" in Developmental Mathematics **Jim Sullivan, Lori Heymans,**

Making Math Real: A Bottom-Up Approach **Joe Heise,**

What, I can't lecture all the time? How Do I "teach"? **Florence Chambers,**

Course Redesign: What Works **David Henry,**

Outcome-based Curriculum and Course level Assessment **Lynne DeSantis and Veronica P. Hupper,**

C-OLI Statistics: Free, Research-based Online Learning Materials **Mary Moynihan,**

Math Education - Making the Transition from High School to College and Career **Robert Bragdon.**



**Herb Gross**, founder of NYSMATYC, AMATYC, and NEMATYC !!!, spoke to attendees about his message of what it means to be a community college teacher.



From the left, **Anne O'Shea, Mike Williamson, and Dave Henry** talk about what works in course redesign, a current topic.

TRUE or FALSE Answers (with thanks to Wikipedia and GuinnessWorldRecords.com)

- FALSE. The earliest known use of the Greek letter  $\pi$  alone to represent the ratio of a circle's circumference to its diameter was by Welsh mathematician [William Jones](#) in his 1706 work *Synopsis Palmariorum Matheseos; or, a New Introduction to the Mathematics*.
- TRUE. Check out the video of the young lady who did it! <https://www.guinnessworldrecords.com/news/2021/7/smarest-records-most-pi-places-memorised-human-calculator-666628>
- FALSE. The constant  $e$  was discovered by the Swiss mathematician [Jacob Bernoulli](#) while studying compound interest. But Euler used the constant and it is said  $e$  was retained in his honor.
- TRUE, sort of. The unofficial record is 111,700 digits. The Guinness World Records site states that the most Pi places memorised is 70,000, achieved by Rajveer Meena (India) at the VIT University, Vellore, India, on 21 March 2015, wearing a blindfold throughout the entire recall, which took nearly 10 hours.

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## NEMATYC – One Year Ago

Due to the restrictions imposed on in-person meetings by the COVID-19 pandemic, NEMATYC 2021 was hosted virtually by conference chairs **Autumn Alden** (Bristol CC) and **Alex Cotter** (Massasoit CC), with the support of Hawkes Learning, McGraw Hill, ALEKS, and Ways to Succeed: Mindful Insights for Learning.

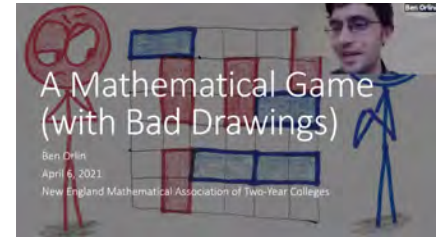
The meeting was spread over five days and went well. It had 133 attendees. The theme was *Inflection Points*.

All of the sessions were hosted on Zoom, and most were recorded! The recordings are available [online](#).

### Sessions

**Keynote Address: A Mathematical Game (with Bad Drawings)**, Ben Orlin

- **Virtual Courses Require Mastery-Based Solutions**, Sarah Peterson, Hawkes Learning
- **Using Truth Table to teach Conditional Probability and Bayes' Rule to Statistical Novices**, Eiki Satake, Emerson College
- **Building Data Science Curricula and Connections Between Two- and Four-Year Institutions**, Nicholas J. Horton, Amherst College
- **ACE Support Services That Are Pivotal to the Success of Math Students**, Omar Aldulaimy & Claudia Nugent de Rago, Middlesex CC (MA)
- **HyFlex got you stressed out? Customizable math courses may be the answer!**, Valerie LaVoice, (NHCI-Concord Community College), Dan Ly, and Natalie Chakrian
- **Exploring How OER Can Help Student Success**, Ann Simao, Springfield Technical Community College
- **Introduction to Edfinity: NSF-Supported Adaptive Online Homework System**, Sid Grover, Edfinity
- **Corequisites to Scale: Addressing the Equity Agenda**, Autumn Alden, Bristol Community College
- **Increasing Self-Regulation: Improving Learning for All Students**, Jane & Thomas Reed, Ways to Succeed: Mindful Insights for Learning
- **Data Science Aboard the Titanic**, Jerry Tuttle, Rocky Mountain College of Art and Design
- **Incorporating High Impact Practices into your Math Courses: A Case Study**, Autumn Alden, Bristol Community College, and Julie Kaskiw and Anthony Mansella, McGraw Hill
- **Transforming your Math Course with ALEKS... It's Easier Than You Think**, Cassandra Brewer and Rachel Nichols, Community College of Rhode Island, Anthony Mansella, McGraw Hill
- **Current Use of Technology in Teaching Introductory Statistics**, Igor Baryakhtar, Middlesex Community College
- **Live Classroom: Immersion in Inquiry**, Ilena Vasu, Holyoke CC, Volker Ecke, Westfield State University, and Meredith Watts, MassBay CC.



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<b>Join NEMATYC</b> <b>Not a member of NEMATYC?</b> 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
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## Visit the NEMATYC Website

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

Go to <http://www.nematyc.org> and browse the links for information about NEMATYC, from its history to the next conference or event, how to contact NEMATYC, and other items of interest.



### Did You Know?

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



**NEMATYC EXECUTIVE COMMITTEE – 2021-2022**

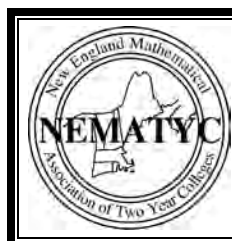
<b>Title</b>	<b>Term</b>	<b>Name</b>	<b>Affiliation</b>
President	20-22	Billy Jackson	North Shore Community College
Vice President	21-22	Autumn Alden	Bristol Community College
Past President	20-22	Alex Cotter	Massasoit Community College
Secretary	20-22	Philomena D'Alessandro	Quinsigamond Community College
Treasurer	19-22	Aisha Arroyo	Middlesex Community College
Member-at-Large	21-23	Tonka Zelenkova	Middlesex Community College
Member-at-Large	20-22	Aliza Miller	Middlesex Community College
Member-at-Large	21-23	Richard Neville	Providence College
Member-at-Large	20-22	Robert Cantin	Mass Bay Community College
Past Conference Chair	21-22	Alex Cotter	Massasoit Community College
Past Conference Chair	21-22	Autumn Alden	Bristol Community College

**Appointed Positions**

Student Math League Coordinator	21-22	Aisha Arroyo	Middlesex Community College
Webmaster	20-22	Mary E. Sullivan	Cape Cod Community College
Newsletter Editor	20-22	Philip Mahler	Retired

AMATYC Regional Vice President: Sophia Georgiakaki, Tompkins Cortland CC

**YOU are the M in STEM**



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**  
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