



WISCONSIN
MATHEMATICS
COUNCIL, INC.

LEADERSHIP AND SERVICE FOR THE
MATHEMATICS EDUCATORS OF WISCONSIN

Visit WMC at
www.wismath.org

NEWSLETTER

IN THIS ISSUE

2022 Annual Conference - A New Format

1	Annual Conference
2	President's Message
3	WMC Board Updates
	Fall PD
	WMC Journal
4	DPI Updates
5	NCTM Updates
	MIW Updates
6-7	WMEF Updates
8-9	CS Updates
11	WMC Board

Join WMC back at the Green Lake Conference Center for the Annual Conference on May 4, 5, and 6. The theme for the 54th Annual Conference is *Making the Shift: Advancing Equity in Mathematics*.

To help support our teachers and school districts, WMC will be transforming the format of the conference. This year, the grade band workshop sessions will be held on Wednesday, May 4th and Thursday, May 5th. The all-day Leadership Conference will then be held on Friday, May 6th. We will also launch a mini-virtual conference on Friday, May 6th for educators that will not be able to attend. This virtual session will include 20-minute pre-recorded sessions from the annual conference line-up of speakers.

October 2021
Volume XLV
Number 1

More details on the Annual Conference including registration and the keynote speaker line-up will be announced in November.

Copyright 2021 by the
Wisconsin Mathematics
Council, Inc.

Share your expertise at the Annual Conference! WMC is seeking speaker proposals for a 60-minute or 90-minute workshop. To submit your proposal, visit the [WMC Speaker Form](#).

Materials may not be
reproduced without written
permission.

We know our 54th Annual Conference will be special, so we thought we would tell you what is so special about 54.

Direct all questions and
concerns to
wmc@wismath.org

- 54 can be written using four threes as $3^3 + 3^3$.
- 54 can be written as the sum of three squares in three different ways including $5^2 + 5^2 + 2^2 = 6^2 + 3^2 + 3^2 = 7^2 + 2^2 + 1^2 = 54$.
- 54 is a *Harshad* number as it is divisible by the sum of its digits. Can you find other Harshad numbers!

Maggie McHugh & Heather Siedschlag, Conference Planning Team

From the WMC President



Hello Mathematics Educators,

Mathematical Modeling has been a major component of our state standards since 2010, but, admittedly, as a classroom teacher, I did not *intentionally* engage my students in mathematical modeling. Did my students take part in aspects of it? Yes. But the whole modeling experience? No. Why? Because I did not have a deep understanding of mathematical modeling and how powerful and necessary it is for building students' mathematical understanding and identity.

What is *mathematical modeling* and how does it compare to *modeling with mathematics*? The [Guidelines for Assessment and Instruction in Mathematical Modeling Education](#) (GAIMME) report states,

In the course of a student's mathematics education, the word "model" is used in many ways. Several of these, such as manipulatives, demonstration, role modeling, and conceptual models of mathematics, are valuable tools for teaching and learning. However, they are different from the practice of mathematical modeling. Mathematical modeling, both in the workplace and school, uses mathematics to answer big, messy, reality-based questions. (pg. 7)

The revised [Wisconsin Standards for Mathematics \(2021\)](#) inspires me and all K - 12 math educators to elevate and center mathematical modeling. To support this pivotal work and the work of the additional standards revisions, WMC will host professional learning opportunities and will announce these by way of WMC e-blasts and the [website](#). Please join us during this year of learning about the revised standards!

In closing, congratulations to Julia Henshaw, Erin Schroeder, and Dave Ebert on being named the 2021 Wisconsin Grades 7 - 12 finalists for the Presidential Awards for Excellence in Mathematics and Science Teaching (PAEMST). This is quite an accomplishment!

Take care,
Tammy Moynihan, WMC President

Presidential Awards for Excellence in Mathematics and Science Teaching

The Wisconsin Mathematics Council would like to recognize our 2021 Wisconsin Grades 7-12 Finalists!



Mathematics Finalists

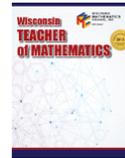
- Dave Ebert, Oregon
- Julia Henshaw, Kimberly
- Erin Schroeder, Waunakee

Updates from the WMC Board

SUMMER BOARD RETREAT

The WMC Board of Directors met in June to begin the 2022 Strategic Plan. This two-day event continued our work on the WMC Equity Position Statement. The June meeting was also a time to welcome new board members and say a big thank you to board members who have served the board well.

READ THE ELECTRONIC JOURNAL



The newly formatted electronic Wisconsin Teacher of Mathematics Journal makes articles focusing on topics related to the teaching and learning of mathematics easy to access. You may find the most recent and past publications of the Wisconsin Teacher of Mathematics Journals at our [journal website](http://journal.wismath.org). Stay tuned for the Fall/Winter addition.

COMING SOON - WMC FALL AND WINTER PROFESSIONAL LEARNING VIRTUAL EVENTS

The WMC Professional Learning Committee is planning a series of fall and winter virtual events to support the teaching and learning of mathematics. These events will include a math modeling social media campaign and monthly virtual Math Chats focusing on the newly adopted Wisconsin Standards for Mathematics. Check out our website in early November for more information.

DISTINGUISHED MATH EDUCATOR

WMC'S DME Award recognizes individuals for their outstanding contributions and exceptional leadership and service to the Wisconsin mathematics education community. To learn more about this award or to nominate an individual, please visit <http://wismath.org/DME>.

Congratulations to Doug Burge for being selected as the 2021 Distinguished Mathematics Educator.

Wisconsin STEM



The Wisconsin Department of Public Instruction is pleased to announce that the 2021-22 Robotics League Grant Application is now available! Applications will be due October 29th, but expenses can span the full fiscal year (July 2021 to June 2022). For more information on this grant, please visit the DPI website at <https://dpi.wi.gov/stem/grants/robotic-league>. The link to the grant application can be found at https://widpi.co1.qualtrics.com/jfe/form/SV_3L4d4ZpifSdV9AO

You can also check out other Science, Technology, Engineering, and Mathematics (STEM) related resources on the DPI website at <https://dpi.wi.gov/stem>.

DPI Updates



Wisconsin Standards: Are you interested in learning more about [the newly adopted WI Standards for Mathematics](#)? Educators and school leaders interested in learning more, including individuals supporting general education, special education, and English language learning are invited to a series of five connected one-hour webinars based on materials for professional learning available [by clicking here](#). These learning opportunities will introduce the 5 Shifts, highlight high-level changes, share an ongoing process for alignment and prioritizing curriculum revisions, as well as situate us all in the WI mathematics community as we move forward with the implementation of the new standards together. Learn more and register for the webinar series through the link in [this flyer](#).

Two additional sets of standards related to mathematics are currently in or will soon be in the review and revision process. [Essential Elements: Mathematics](#) will be presented to the WI Standards Review Council in September to determine if a revision is needed in order to align with *Wisconsin Standards for Mathematics, 2021*. If these standards are opened for revision, a writing team will be assembled to begin the work this fall. [Wisconsin Model Early Learning Standards](#) (birth-age 5) will begin the review and revision process in winter 2022.

2021-2022 PAEMST: Consider nominating one or more outstanding teachers for the Presidential Awards for Excellence in Mathematics and Science Teaching! The 2021-2022 PAEMST cycle is for K-6 teachers. The early years of mathematics education are critical in supporting student mathematical identities and attitudes toward mathematics. Who comes to mind when you think of fostering those early positive beliefs about mathematics? Let a K-6 teacher know how important they are [by nominating them for PAEMST](#). The PAEMST are the highest honors bestowed by the United States government specifically for K-12 science, technology, engineering, mathematics, and/or computer science teaching. Teachers may also apply directly at www.paemst.org.

The **nomination deadline is January 7, 2022** and the **application deadline is February 6, 2022**, for elementary school teachers (grades K-6). Secondary school teachers (grades 7-12) will be eligible to apply during a future cycle.

Connect with “The Network”: Did you know that the Disproportionality Technical Assistance Network (“The Network”) is offering an Educational Equity Series? These opportunities during the 2021-2022 school year include participation in both live webinars and equity Connect Workshops. [Go to their website](#) and click on the blue “Sign Up for Emails” to receive updates on these amazing opportunities!

Wisconsin Rtl Center - District Focus on Mathematics: Systemic mathematics instruction is part of an equitable, multi-level system of supports. Schools have the instructional expertise, but creating systems that can be sustained over time requires district involvement and support. Go to the WI Rtl Center’s [District Focus on Mathematics webpage](#) to learn more. Scroll down to find the Implementation Calendar and Key Resources.

Updates from NCTM



NCTM is committed to bringing the math community together for engaging content that will help transform the learning and teaching of mathematics. Join your colleagues for the NCTM 2021 Fall Virtual Conference, November 17-20, and share in the excitement and love of math!

The exciting online platform will provide opportunities for networking, small chat rooms, discussions with exhibitors and much more.

Learn more about this professional learning event at <https://www.nctm.org/fallvirtual2021/>.



Apply for NCTM's Mathematics Education Trust grants, scholarships, and awards. Funding ranges from \$1,500 to \$24,000 and is available to help math teachers, prospective teachers, and other math educators improve the teaching and learning of mathematics. Grants with application are due on November 1, 2021. Learn more about these opportunities at <https://www.nctm.org/Grants/>.

Updates in MIW

The Mathematics Institute of Wisconsin supports math educators to develop stronger content knowledge and more effective teaching strategies. Join them for the following professional learning events. More information on these events can be found at <https://mathinstitutewi.org>.

Using Children's Literature to Support Mathematical Understanding

Join us as we engage in an interactive day of learning in which we use children's literature to support math learning for all students.

Dates: April 22, 2022

[Information and Registration](#)

Early Learning Series Developing Young Mathematicians

Our DYM workshop series explores foundational math concepts for kids ages 3-6. Participants will explore and discuss how teachers can tap into young learners' natural curiosity and the power of play to develop mathematical thinking.

Upcoming Workshop Topics:

- Shapes & Spatial Reasoning on November 9, 2021
- Adding & Subtracting on February 23, 2022
- Measurement on March 9, 2022

[Information and Registration](#)

Updates from the WMEF

Scholarships

The Wisconsin Mathematics Education Foundation proudly extends congratulations to three qualified candidates who were awarded scholarships this spring. We look forward to watching the careers of these young leaders blossom as they join us in the teaching field!

Congratulations to the 2021 recipients of the **Arne Engebretsen Scholarship**, Alexa Robarge from Rice Lake High School and Caitlin Herminath from New London High School

Congratulations to the first ever 2021 recipient of the **Jane Howell Teacher Education Scholarship for Students of Color**, Brianna Johnson at University of Wisconsin Whitewater.

Please encourage your students to apply for the 2022 scholarships! Deadline for the scholarships is March 1, 2022. Check out for more information and application forms at <http://wismath.org/WMEF-Scholarships>.

Grants

Currently there are four grant opportunities ranging from short-term classroom needs to long-term professional development available through WMEF. All forms have been revised to address diversity, equity and inclusion.

- Dr. Julie Stafford Professional Development Grant
- Dr. Henry Kepner Long Term Professional Development Grants
- Student Activities Grant
- Materials/Resources Grant

Grant applications are due December 1, 2021. Check out <http://wismath.org/WMEF-Grants> for more information and application forms.



Thank you for your continued support of mathematics education in Wisconsin! **WMC and WMEF have tax-exempt status from the IRS under section 501 (c) (3) of the Internal Revenue Code. Contributions are tax deductible under section 170 of the Code.**

Financial Support

These scholarships and grants are funded by donations from individuals who have a vested interest in improving mathematics education in Wisconsin's classrooms. For more information, please go to <http://wismath.org/WMEF-Donate>.

Fully tax-deductible contributions may be given to the Wisconsin Mathematics Council's Foundation, WMEF, at three levels: Pythagoras Level: \$1 to \$99; Pascal Level: \$100 to \$499; and Einstein Level: Over \$500

Planned Gifts Create a lasting legacy by including WMEF in your will. An estate gift allows you to make a much larger impact than might be possible during your lifetime.

IRA and RMD If you have an IRA, you may have to take a Required Minimum Distribution (RMD) each year. You can donate a portion of this to WMEF and reduce your overall tax.

Tributes Make a gift in honor or in memory of someone special. This is a great way to recognize a teacher or to remember a loved one.

Gifts Birthdays, holidays and other events are a perfect way to give!

Participate in WMEF events Join the **Pi Run** or the **50/50 Raffle**, both held at the Annual Conference

Amazon Prime If you make purchases from Amazon.com, a small part of your purchase can support WMEF at no additional cost to you. Just go to smile.amazon.com and choose "Wisconsin Mathematics Education Foundation" as your charity of choice.



The **mission** of WMEF is to financially support excellence in mathematics education for students and teachers in the state of Wisconsin.

The **vision** of WMEF is to develop financial partnerships with individuals and organizations that will ultimately provide educational opportunities so all Wisconsin students will acquire the mathematics skills necessary to be productive citizens ready to globally contribute in the 21st century.

Computer Science Updates

- **WI CS Teachers Google Group:** to join contact Joe Kmoch at joe@jkmoch.com
- **CSTA WI-Dairyland monthly CS Newsletters** with much information about CS PD, student involvement, resources nationally and in WI
 - August: https://bit.ly/CSTAWI_Newsletter-Aug2021
 - September: https://bit.ly/CSTAWI_Newsletter-Sept2021
- **PUMP-CS Professional Development:** <https://pumpcs.mu.edu>
- **WI CS K-12 standards**
- **Join CSTA:** <http://csteachers.org> and click on Membership tab at the top

Upcoming Events

NCWIT Aspirations Award Program: There are three unique awards available through this program. Visit our NCWIT-WI Affiliate site for further information and helpful resources < <https://ncwit-wi.org> >.

 <p>ASPIRATIONS IN COMPUTING an NCWIT Program</p>	<p>The Award for Aspirations in Computing honors 9th-12th grade students who self-identify as women, genderqueer, or non-binary for their computing-related achievements and interests, and encourages them to pursue their passions. Here is a flyer, a poster and a three videos (new video, video1 and video 2)</p>
 <p>ASPIRATIONS IN COMPUTING EDUCATOR AWARD an NCWIT Award</p>	<p>The Aspirations in Computing Educator Award identifies exemplary formal and informal educators who play a pivotal role in encouraging 9th-12th grade students who self-identify as women, genderqueer, or non-binary to explore their interests in computing and technology.</p>
 <p>COLLEGIATE AWARD an NCWIT Award</p>	<p>The NCWIT Collegiate Award honors the outstanding computing accomplishments of undergraduate and graduate students who self-identify as women, genderqueer, or non-binary. Conferred annually, the award recognizes technical contributions to projects that demonstrate a high level of innovation and potential impact. Here is a flyer and a video.</p>

CESA led SCRIPT district level workshops available: All CESAs have a trained SCRIPT facilitator available to districts to plan implementation of CSForAll efforts in their districts. **SCRIPT** --the **Strategic CSforALL Resource & Implementation Planning Tool** — is a framework to guide teams of district administrators, school leaders, and educators through a series of collaborative visioning, self-assessment and goal-setting exercises to create or expand upon a computer science education implementation plan for their students.

School districts and other local education organizations are the unit of change toward creating rigorous, inclusive and sustainable K-12 computer science education. The SCRIPT supports systems-level change by addressing five key areas: (1) Leadership, (2) Teacher Capacity and Development, (3) Curriculum and Materials Selection and Refinement, (4) Partners, and (5) Community.

Midwest is Best CS Education Unconference – Coming! Hang on to your hats and caps! Several CSTA chapters in the Midwest (at least Iowa, Ohio, Illinois, Michigan and Wisconsin) are beginning to plan to have a Virtual CS Summit. The dates being looked at are in the months of February and March, 2022. We'll be asking you for thought and ideas on what you'd like to see included. If you have some ideas now, please contact one of these four CSTA WI-Dairyland chapter leaders: Amy Fetherston <fetheram@wauwatosak12.wi.us>, Saghar Homayounpour <saghar.homayounpour@nbexcellence.org>, Joe Kmoch <joe@jkmoch.com>, Mary Walz <mary.walz@saukprairieschools.org>

CSTA WI-Dairyland Implements the CSTA Personalized Mentoring Program: For 2021-2022 CSTA WI-Dairyland is one of several chapters in the U.S. who is implementing the CSTA NSF program to match experienced computer science teachers trained in more recent approaches to teaching computer science with teachers newer to teaching computer science. WI-Dairyland co-Presidents, Amy Fetherston and Linnea Logan are leading this yearlong effort. Newer CS teachers are receiving rigorous, ongoing, one-on-one support from experienced high school CS teachers. Teachers involved are teaching one of the newer curricula – Exploring Computer Science or AP CS Principles. Further information [here](#). At this time it is unclear whether this will continue for the 2022-2023 school year.

Coming this Fall...the WI State Plan for Computer Science Education: Several CSTA WI-Dairyland leaders along with about two-dozen other interested parties have been refining and adding ideas that will become our state plan for CS Education. Stay tuned and ask lots of questions of your school and district leaders. This effort is being led by Janice Mertes and her team at WS-DPI

Free Practice for Praxis CS Exam from CompuScholar: CompuScholar is offering two of their courses and study guides which should prepare you to take the Computer Science Praxis Exam (5652) in Wisconsin. This is entirely free of charge and offered by CompuScholar in conjunction with the CSTA WI-Dairyland. The courses are online, self-paced and self-study, so you can get started at any time and take up to 6 months to complete them. Registration link: <https://www.compuscholar.com/schools/standards/states/wisconsin/praxis>

Illinois Council of Teachers of Mathematics Updates

Register for the ICTM 2021 Virtual Annual Conference on Saturday October 16th from 8:30 - 12:50! The theme of the conference is *Pursuing Innovation and Equity* with keynote speaker Fawn Nguyen. Register at the ICTM [annual conference website](#).

ICTM offers several resources to the general public. Check out their list of websites and other resources to assist with this school year at <https://ictm.memberclicks.net/learning-resource-list>



The Premier Organization of
Mathematics Educators in Illinois

2021-2022 WMC Board of Directors

Tammy Moynihan, President
CIA Associate Director
CESA 8, Gillett

Lisa Hennessey, President Elect
Math Coordinator
Sun Prairie Area School District

Jane Patterson, Secretary
Mathematics Teacher
Greendale Middle School

Rebecca Brink, Treasurer
Mathematics Teacher
Marinette School District

Mark Bussian, Grades PK-2
Teacher
Token Springs Elementary
Sun Prairie Area School District

Michelle Butturini Grades 3-5
Teacher
Reedsville Middle School

Michelle Parks, Grades 6-8
Math Specialist & Instructional Coach
Augusta School District

Mary Walz, Grades 9-12
Mathematics Teacher
Sauk Prairie School District

Erick Hofacker, College/University
Professor of Mathematics
UW River Falls

Daniel Lyons, Wisconsin Technical
College Representative
Mathematics Instructor
Gateway Technical College

David Ebert, Statewide
Mathematics Teacher
Oregon School District

Danielle Robinson, Statewide
Math Interventionist
Milwaukee Public Schools

Kevin McLeod, Ex Officio
Mathematician
Professor of Mathematics
UW Milwaukee

Jennifer Lawler, Ex Officio WiMLC
Coordinator of Mathematics
Kenosha Unified School District

Ken Davis, Ex Officio
Mathematics Teacher
School District of Beloit

Julie Bormett, Ex Officio DPI
Representative,
Department of Public Instruction

Mary Mooney, Ex Officio DPI
Representative,
Department of Public Instruction

Kaydan Geiger, Ex Officio
Undergraduate Student
UW River Falls

WMC 2019 Annual Report



Quality mathematics
education that enhances
the learning for ALL
students

3.1415926535897932384626433832795

2019 Annual Report

Your Membership & Donations
= Our Mission

Excellence in Mathematics Education

028841971693993751058209749445923



Supporting excellence in
mathematics education
for students and teachers

In 2019, the Wisconsin Mathematics Council continued to enhance the learning of all students by offering professional learning, communications, and outreach opportunities. For a summary of WMC and its foundation's activities over the 2019 academic year, please read the WMC Annual Report at <http://wismath.org/Annual-Report>. WMC looks forward to more great activities in 2021 and beyond!



WISCONSIN
MATHEMATICS
COUNCIL, INC.

The **WMC Mission** is to lead in the development and promotion of quality mathematics education that enhances learning for all students.