



TENNESSEE MATHEMATICS TEACHERS ASSOCIATION

TMTA Fall Conference

October 22-23, 2021

Memphis University School

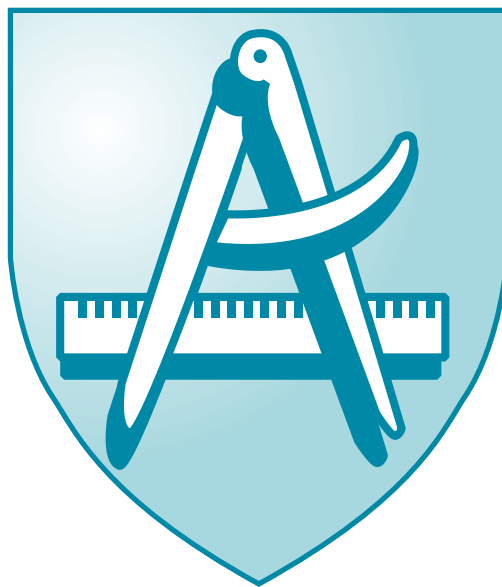


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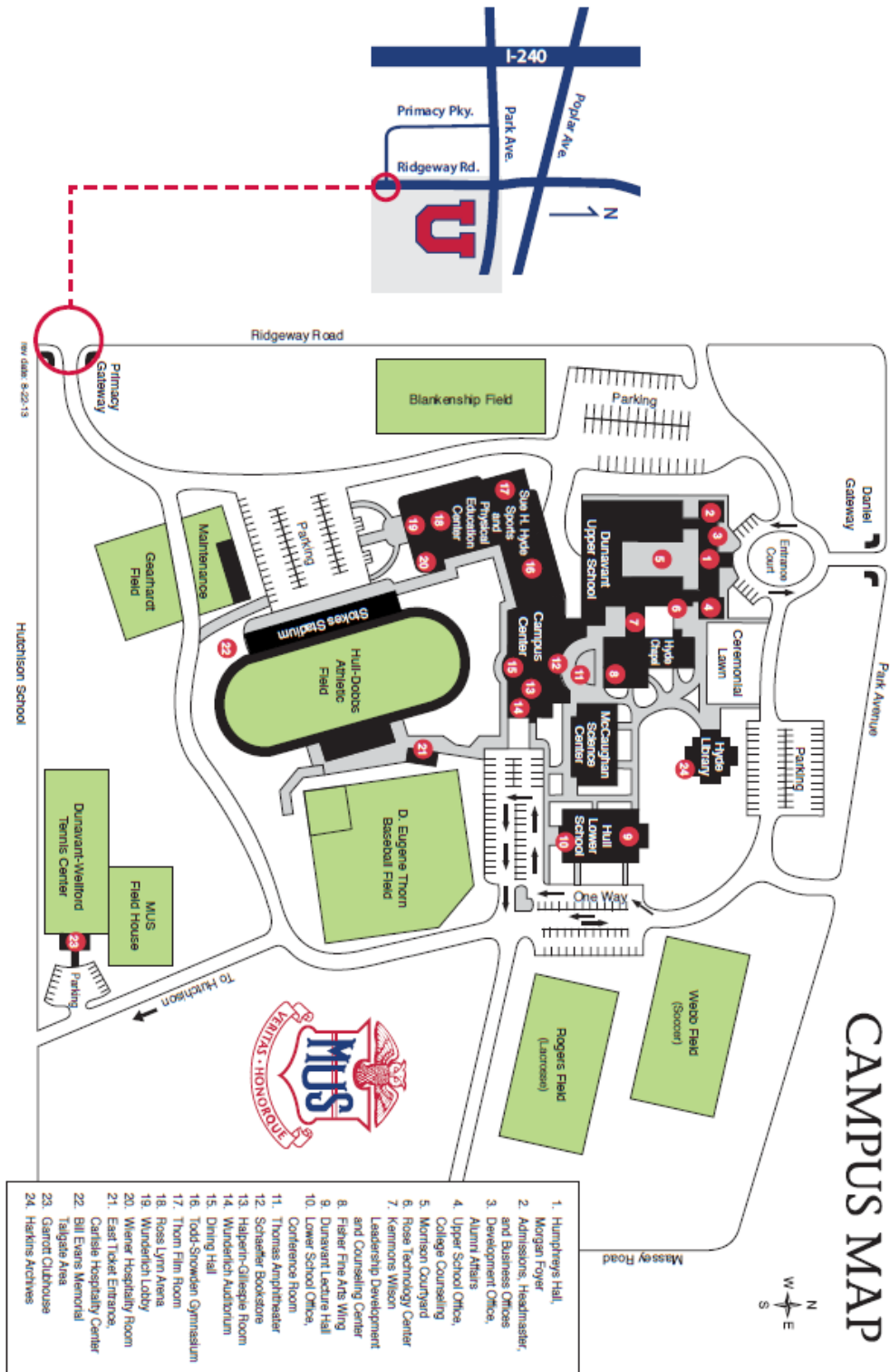
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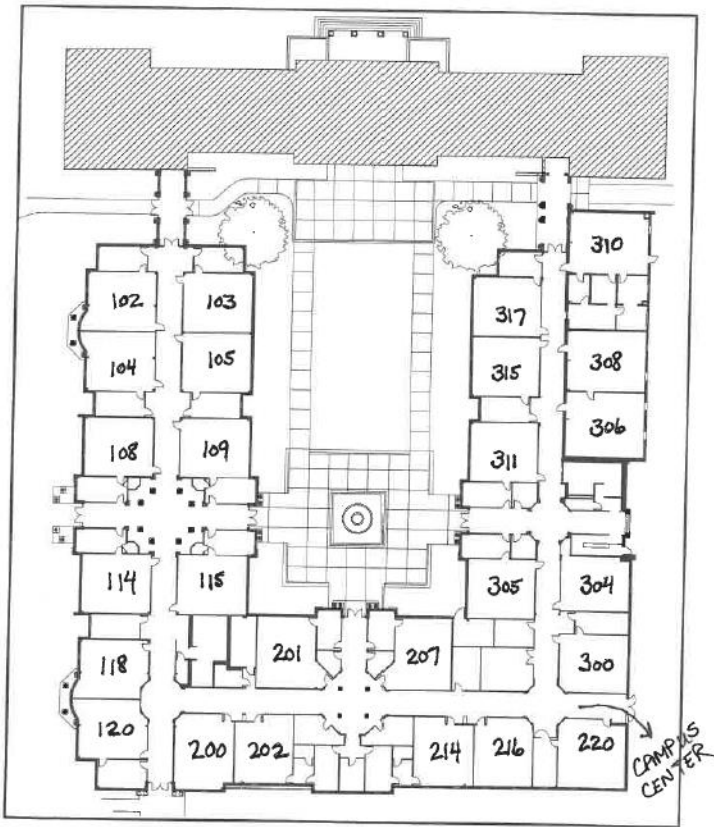
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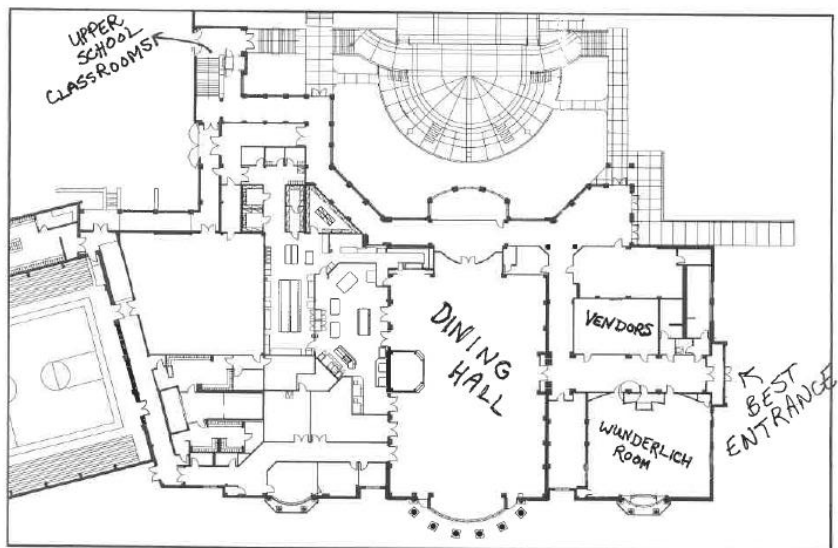
MEMPHIS UNIVERSITY SCHOOL CAMPUS MAPS



MEMPHIS UNIVERSITY SCHOOL UPPER SCHOOL MAP and CAMPUS CENTER MAP



DUNAVANT UPPER SCHOOL



CAMPUS CENTER



MASTER SCHEDULE and PLANNING SHEET

FRIDAY, OCTOBER 22

Registration	2:30-5:00 p.m.	Campus Center Lobby
Session A	3:00-3:50 p.m.	_____
Session AB	3:00-4:50 p.m.	_____
Session B	4:00-4:50 p.m.	_____
RECEPTION (Age of Learning) Bill Weppner: "My Apollo Story"		Dining Hall

SATURDAY, OCTOBER 23

Session C	9:00-9:50 a.m.	_____
Session CD	9:00-10:50 a.m.	_____
Session D	10:00-10:50 a.m.	_____
Session DE	10:00-11:50 a.m.	_____
Session E	11:00-11:50 a.m.	_____
BANQUET	Noon-1:00 p.m	Dining Hall
KEYNOTE	1:00-1:30 p.m.	Wunderlich Auditorium
Lara Pudwell: "Cultivating Opportunities for Discovery"		
Session F	1:40-2:30 p.m.	_____
Session FG	1:40-3:30 p.m.	_____
Session G	2:40-3:30 p.m.	_____
DOOR PRIZES	3:40-3:45 p.m	Dining Hall

FRIDAY, OCTOBER 22

REGISTRATION

2:30-5:30p.m.

Campus Center, Lobby

Come pick up your registration packet
before heading to your first session.

EXHIBITS

3:00-5:30p.m.

Campus Center, Halperin-Gillespie

Stop by and visit the vendors
anytime and often!
They're listed separately.

We are following all practical precautions to minimize our collective risks regarding COVID. We respectfully expect all attendees to maintain social distancing and wear masks except when presenting in a session or when actively eating or drinking. Thanks – let's remain safe!

Key to Grade Band(s):

K-2;

3-5;

M (middle school);

H (high school);

C (college);

G (general);

P (pre-service teachers)

FRIDAY, OCTOBER 22

SESSION A 3:00-3:50 p.m.

Session	Room	Presentation	Grade Band(s)
A01	305	<p>Precise Placement + Gaming Strategy + Engagement = K-2 Math Gains Shawn Meddock and Jessica Bobo (vendor: Age of Learning)</p> <p>Experience the power of mastery mathematics! Go hands-on with <i>My Math Academy</i>, a new program for K-2 that has helped triple math gains in young learners!</p>	K-2
A02	311	<p>Word Problem Types for Multiplication and Division Daryl Stephens</p> <p>We examine the 12 different types of multiplication and division problem situations and some ways to help students solve them without using “CUBES.”</p>	3-5
A03	315	<p>Games and Activities for Numerical Fluency Shelly Baumann</p> <p>A fast-paced, highly-motivating workshop designed to help teachers engage all students. Games and activities develop fluency and strategic thinking.</p>	M,H
A04	317	<p>Developing Mathematical Literacy through Young Adult Literature Holly Anthony and Paula Greathouse</p> <p>We share a variety of young adult novels that can be leveraged in math classrooms to enhance math instruction and get students to read like mathematicians.</p>	M,H
A05	304	<p>Recruiting Math Teachers: UTM’s Noyce Scholars Program Elliott S. Elliott</p> <p>A description of eligibility and the application process for NSF Noyce grants to incentivize STEM majors to become math or science teachers.</p>	H,C,G

SESSION AB (double session)
3:00-4:50p.m.

Session	Room	Presentation	Grade Band(s)
AB01	200	Classroom-Ready SEL Strategies for K-5 Erin Cockrell and Susan Jones (vendor: Big Ideas Learning) Take a deeper dive into the five SEL competencies: how to recognize them and how to integrate them into our everyday lessons.	K-2;3-5
AB02	220	Ready, Set, Action: School-Wide Mathematics (vendor: Carnegie Learning) Only five percent of students are able to do on-grade level work with the right support. At the heart of improving schools is focus on the instructional core.	M,H

SESSION B
4:00-4:50p.m.

Session	Room	Presentation	Grade Band(s)
B01	305	Data, Games, and Math – Oh My! Jessica Bobo Data is more important than ever! Engage in hands-on experiences to understand requirements for successful individualized instruction for youngest math learners.	K-2
B02	311	A Great Mathematician I Will Be! Carol Stafford Learn more about the benefits of using the mathematical practices in daily math instruction.	K-2
B03	317	Take it to <i>The Limit</i>: Developing Mathematical Literacy Holly Anthony and Paula Greathouse Reading young adult literature can motivate and engage students. We share math activities from the novel <i>The Limit</i> useful in secondary math classrooms.	M,H,P
B04	315	The Math Behind Sports' Magic Number Ryan Fox The magic number is the combination of wins and losses a team needs to clinch a championship. Let's explore in the context of several sports.	M,H,G,C
B05	304	Quality Co-Teaching Strategies in Math Classrooms Lea Keith and Karen Goodman Learn components of co-teaching, different strategies to try with co-teachers, and ideas on how to plan for co- teaching when time is limited.	G

FRIDAY, OCTOBER 22

RECEPTION

5:00-5:50p.m.

Campus Center, Dining Hall

Before heading out on the town,
stop by the reception hosted by Age of Learning,
and then listen to Bill Weppner,
now at Southwest Tennessee Community College
but in 1969 at NASA,
as humans first landed and walked on our moon.

“MY APOLLO STORY:

Whence we’ve come to where from here. Apollo vs Artemis”



*Be aware that outsiders will be arriving
on campus for a 7:00p.m. football game.
But all will be back to normal
when we return Saturday morning.*

SATURDAY, OCTOBER 23

CONTINENTAL BREAKFAST

8:00-8:50a.m.

Campus Center, Dining Hall

Get ready for another day,
the banquet, and a keynote speaker.

EXHIBITS

8:00a.m.-2:00p.m.

Campus Center, Halperin-Gillespie

Stop by and visit the vendors
anytime and often!

SESSION C

9:00-9:50a.m.

Session	Room	Presentation	Grade Band(s)
C01	305	Developing Math Skills and Concepts through the Arts Ann Assad These activities engage students in significant mathematics through music, art, and writing. By honoring cultural diversity, they encourage persistence and productive classroom discourse.	K-2,3-5
C02	315	Assessing Capable Learners: How Do We Get There? Thomas Rhea (vendor: Big Ideas Learning) This session will equip teachers with deeper understanding of strategies whose implementation can help triple the rate of student learning.	K-2,3-5,M,H
C03	311	Using Simulations to Teach Probability/Statistics Darin Clifft This session will cover my go-to simulation activities used every year in my AP Statistics class. Attendees should bring a thumb drive to download materials.	M,H,C
C05	300	Overview of Technology in my Math Classroom Chris Fiano In this session, we will explore an overview of different math applets and technology that I have used in my classroom. Attendees should bring a device for use during this session.	M,H

SATURDAY, OCTOBER 23

SESSION CD (double session) 9:00-10:50a.m.

Session	Room	Presentation	Grade Band(s)
CD01	306	<i>Eureka Math – Why High-Quality Curricula Matter</i> Mike Linskey (vendor: Great Minds) All students should experience rigorous, knowledge building curriculum. Explore high-quality curricula through Engagement, Accessibility, and Teachability.	K-2,3-5,M

SESSION D 10:00-10:50a.m.

Session	Room	Presentation	Grade Band(s)
D01	305	Math Department Chairs Roundtable Discussion Phillip Stalls and Darin Clifft This roundtable discussion allows math department chairs to get together informally to examine issues related to current challenges departments face.	M,H
D02	300	Flip It! Anthony Taylor Thinking about "flipping" your math classroom? It is a wonderful way to encourage student accountability and fun activities in your classroom. Come learn how.	H
D03	311	Engaging Students through Classroom Games Kara Underwood, Sabrina Lindstrom, and Sara Grey Classroom games can encourage thoughtful discussion and interest students through the use of technology.	H
D04	315	The TEAM Rubric in the Math Classroom Eddie Keel This session will share some “tricks of the trade” for all math teachers who are evaluated using Tennessee’s TEAM rubric.	G
D05	216	Old Math vs. New Math: It’s All the Same Jennifer Yantz and Marylu Dalton Let’s debunk the idea of “New Math” by looking at math instruction throughout history. We will discuss how to utilize our predecessors’ instructional methods.	G

SATURDAY, OCTOBER 23

SESSION DE (double session) 10:00-11:50a.m.

Session	Room	Presentation	Grade Band(s)
DE01	308	Batteries, Fruits, and Mathematics – Oh My! Carey Wilson Create batteries using fruit, collect data from the different batteries, and present your data at the conclusion of the second session.	M,H
DE02	304	Let's Connect! Engage All Students with Research-Based Practices Kimberly Dennis and Nioka Lavigne Pre-Service teachers will connect Explicit Instruction with Research-Based practices in the TEAM Rubric, engaging in discussion of these classroom practices.	P

SATURDAY, OCTOBER 23

SESSION E 11:00-11:50a.m.

Session	Room	Presentation	Grade Band(s)
E01	300	Incorporating Literacy in Math Instruction Texas Culver and Tammie Patterson Participants will engage in activities highlighting the thread between mathematics and literacy, demonstrating the benefits of blending literacy and math.	K-2,3-5,P
E02	305	Learning Walks: A Collaborative Way to Enhance Teacher Effectiveness Judy Hickman (vendor: Big Ideas Learning) Mathematics Learning Walks supports teacher efficacy, teacher content knowledge, and instructional practice, and builds relationships with students and colleagues.	K-2,3-5,G
E03	311	What is TATM (TN Aspiring Teachers of Math)? Jackie Vogel Want to learn about your preservice teacher affiliate, TATM? Looking for opportunities to serve at the state level? Want to meet other preservice teachers? Join us!	P
E04	315	Breakout Games in the Math Classroom Kendra Poszywak Taking a look at how to implement breakout games (“escape rooms”) in a math classroom and the benefits of using them.	M,H,G
E05	216	Literacy in Mathematics Lisa Elliott This presentation focuses on how to increase reading and literacy perseverance in the mathematics classroom.	H
E06	306	Coaching Advanced Mathletes During the Pandemic Ray Wu and Raj Gosain (students!) The presentation will detail the practices used to bring the best out of students on Memphis’s White Station Middle School MATHCOUNTS Team.	M,H

SATURDAY, OCTOBER 23

BANQUET

12:00-1:00 p.m.

Campus Center, Dining Hall

Entertainment by Gabe Chen (violin)
and Dannie Dong (piano)

TMTA BUSINESS MEETING

(during and after the banquet)

Campus Center, Dining Hall

Our meeting will be brief,
but some important business
must be handled.

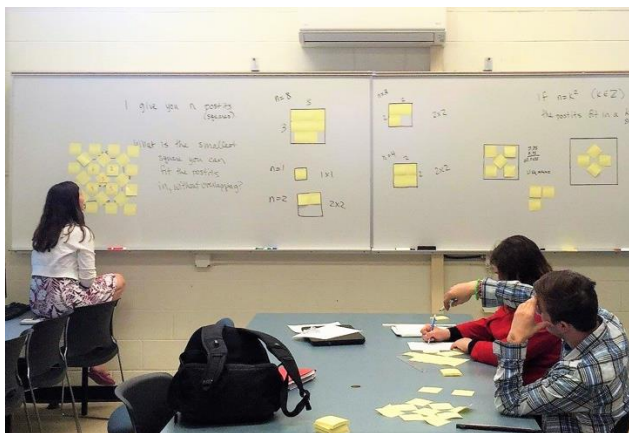
KEYNOTE SPEAKER

LARA PUDWELL, Valparaiso University

1:00-1:30p.m.

“Cultivating Opportunities for Discovery”

Lara Pudwell is a 1999 graduate of White Station High School in Memphis. She earned a BS in mathematics and a BA in computer science from Valparaiso University in 2003 and a Ph.D. in mathematics from Rutgers University in 2008. Since then, she has returned to Valparaiso University where she is a Professor of Mathematics and Statistics, teaching courses including calculus, linear algebra, discrete mathematics, and combinatorics. Her work in the classroom has been recognized with the 2014 Henry L. Alder Award for Distinguished Teaching from the Mathematical Association of America and the 2021-2022 Valparaiso University Excellence in Teaching Award. She is a coauthor of *A Mathematician's Practical Guide to Mentoring Undergraduate Research* (MAA Press, 2019), a past Chair of the Indiana Section of the Mathematical Association of America, and the Executive Director of MathPath, a national summer camp for middle schoolers who love mathematics. In addition, she has over 30 research publications and has given numerous other national and international conference presentations related to her research and her work with students.



SATURDAY, OCTOBER 23

SESSION F 1:40-2:30p.m.

Session	Room	Presentation	Grade Band(s)
F02	311	Making Sense of the Metric System Melanie Hammons and Audrey Bullock We will share background information, hands-on and visual strategies for working with metric system estimations and conversions.	3-5,M,P
F03	315	Classroom Management/Self-Care “Back to Basics” Nicole Hardison In 12 years of teaching I have learned Back to Basics and finding your love for teaching all over and self care.	G
F04	306	Algebra I: A Recipe for Success Antony Eddy The benefits and proven success rates of daily bellworks (quizzes), organized notes, and daily homework; within both a block schedule and a traditional schedule.	M,H
F05	300	Ideas for Teaching AP Calculus Sheri Beaver Participants bring strategies or activities to share with other teachers to improve student knowledge and to gain formative data of student learning.	H
F06	308	OMG! Graphic Organizers in Math! Rhonda Davis Make an Outstanding Math Guide containing graphic organizers with steps, examples and vocabulary as a quick reference for key concepts taught during the year.	3-5,M,H,P

SESSION FG (double session) 1:40-3:30p.m.

Session	Room	Presentation	Grade Band(s)
FG01	220	Technology Enhanced Item Mastery for TN Students Scott McDonald (vendor: American Book Company) See and apply mathematical key concepts found on simulated TCAP questions in both printed worksheets and online formats.	K-2,3-5,M,H,P

SATURDAY, OCTOBER 23

SESSION G 2:40-3:30p.m.

Session	Room	Presentation	Grade Band(s)
G01	306	The Language of Mathematics Caleb Marston The importance of mathematically accurate vocabulary in elementary education.	K-2,3-5
G02	308	Cultural Competency: Providing Equitable Instruction and Cultural Relevance India White (vendor: Big Ideas Learning) National Assessment of Educational Progress scores suggest that current educational practices in math classrooms will eliminate achievement gap in 217 years.	K-2,3-5,M,H
G03	317	Get MORE from Your TI-Eighty FOUR Alice Carson Discover some of the lesser known tools of the TI-84CE graphing calculator.	M,H,C,P
G04	311	Using Math to Drain a Lake Shawn Meng (student!) Ever heard (or thought to yourself) that math isn't real-world applicable? This presentation details math used to design a flood-prevention structure at White Station High.	M,H,C,P
G05	305	Applications of Geometry in Engineering Sam Narimetla Various applications of geometry in engineering.	H,C,G

DOOR PRIZES!

Campus Center, Dining Hall

3:30-3:40p.m.

There will be plenty of free items given away:
classroom manipulatives, books,
technology, and less serious stuff.
But you must be present to win.

*After last fall's cancellation,
we hope this conference has been particularly worthwhile.*

Have a safe trip home and a great school year!

SPEAKERS AND CONTACT INFORMATION

(shared only with permission)

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