

## FRIDAY MORNING WORKSHOPS

ROOM	8:40 AM – 10:10 AM	11:00 AM – 12:30 PM
<b>Edmund Fitzgerald Exhibit Hall</b>	1 General First Timers Orientation <b>Terry Wyberg and Judy Stucki</b> 8:00-9:30 a.m.	
<b>Registration Area</b>	2 3-8 The Distributive Property Up Close and Personal <b>Cathy Wick</b>	35 6-8 When Your Textbook Isn't Enough: Teaching Algebra Right the First Time <b>Paul Agranoff</b>
<b>French River 1</b>	3 6-12/General Can Math Camp be This Much Fun? Park City Mathematics Institute in Duluth <b>Mary Jo Hughes and Seth Leavitt</b>	36 9-12 Math Modeling Through Real Data <b>Jack Burrill</b>
<b>French River 2</b>	4 3-8 Demystifying the Learning of Algebra <b>Katy Schmitz</b>	37 Pre-K-8 Hands-On Montessori Materials in Mainstream Classrooms <b>Kathy Tomlinson &amp; Laurel Langford</b>
<b>Gooseberry Falls 1</b>	5 6-8 The Impacted Cube and the Sliding Octagon Star <b>Paula Bengtson</b>	38 9-12 Multiplying/Dividing Polynomials using Algebra Tiles and Generic Rectangles <b>Lisa Comfort</b>
<b>Gooseberry Falls 2</b>	6 9-College STEM Activities Using the NASA Data <b>Theresa Reardon Offerman</b>	39 Pre-K-2 Making Sense of Numbers <b>Barb Abramson</b>
<b>Gooseberry Falls 3</b>	7 Pre-K-2 Mental Images to Develop Structures 1-10 <b>Sarah Burkhardt and Kim Entinger</b>	40 6-12 My Toolbox for Working With At-Risk Students <b>Susanne Westegaard</b>
<b>St. Louis River</b>	8 6-12 Experience a Great Team in the Classroom! TST <b>Sharon Dailey</b>	41 3-8 Using Patterns to Write Linear Equation and Test With a TI-Nspire <b>Meredith Boucher and Jona Deavel</b>
<b>Harbor Side 202</b>	9 6-12/General Teaching Math With a SmartBoard <b>Troy Faulkner</b>	42 6-12/General Teaching Math With a SmartBoard <b>Troy Faulkner</b>
<b>Split Rock 1</b>	10 General Does Technology Really Help? <b>Tim Franke</b>	43 K-7 Everyday Counts – A Lot of Math in a Little Time <b>Judy Rohde</b>

## FRIDAY MORNING SESSIONS

Room	9:00 AM – 10:00 AM	10:20 AM – 11:20 AM	11:30 AM – 12:30 PM
Harbor Side 203	11 General Looking at Mathematics Anxiety <b>Stephanie Marnocha &amp; Dr. Janal Schultz</b>	23 3-12 Classroom Clickers <b>Tina Gorgos, Nicole Jockisch and Kristen Hummel</b>	44 6-College Teddy Bear Catapults: Exploring Quadratic Equations <b>David McMayer</b>
Harbor Side 204	12 9-College How Can We Improve Student Success in Our Pre-algebra and Introductory Algebra? <b>Sharon Hintgen</b>	24 Pre-K-8 Getting More Math Time Through Technology <b>Barbara Kotzer</b>	45 6-College Problem Solving – How Are You Using it in Your Classroom <b>Glen Richgels</b>
Harbor Side 205	13 9- College The Effect of Customizing Tutorials for Students Using Online Homework <b>Aaron Wangberg and Kristin Bertram</b>	25 College Using Coins, Dice and Playing Cards to Teach Statistical Inference, Session I <b>Sue Beseler, Tisha Hooks, April Kerby and Chris Malone</b>	46 College Using Coins, Dice and Playing Cards to Teach Statistical Inference, Session II <b>Sue Beseler, Tisha Hooks, April Kerby and Chris Malone</b>
Harbor Side 301	14 9-College Introduction to Mathematical Sciences – A Non-traditional Course for Students <b>Glen Richgels</b>	26 College Common Cut Score for College Algebra: Another Year Later <b>Beth Hentges</b>	47 3-5 Using Literature to Support Elementary School Students' Learning of Mathematics <b>Nicky Wieling, Sonja Goerdts and Karen Landsverk</b>
Harbor Side 302	15 6-College Emerging Technologies to Enhance Your Math Course <b>Dan Petrak</b>	27 Pre-K-5 Guided Math <b>Kathryn Russeth, Laura Burell, Anne Sauvageau</b>	48 College My Coolest Linear Algebra Projects (So Far) <b>Mark Omodt</b>
Harbor Side 303	16 Pre-K-5 Cognitively Guided Instruction <b>Sarah Johnston</b>	28 6-12 Slope and Tangent: It's a Geometric Connection <b>Cheryl Tucker</b>	49 General "Why Johnny Can't Read" Matters in Math Classrooms K-12 <b>Melissa Luedtke, Scott and Karen Sorvaag</b>
Harbor Side 304	17 9-College/General Introduction to GeoGebra <b>Kathy Tomlinson</b>	29 Pre-K-5 Subtraction: Building Fluency and Flexibility <b>James Brickwedde</b>	50 5-8 Rational Tangles <b>Mary Sucher and Melissa Loe</b>
Harbor Side 305	18 General Odysseys2sense: A Game for Non-gamers: A Forum for Gamers <b>Rose W Chu, Kristine Foss and Larry Copes</b>	30 6-8 Perspectives on Teaching Eighth Grade Math Intervention <b>Michele Luke</b>	51 3-8 A Journey Into Algebraic Thinking <b>Sandy Berg</b>
Split Rock 2	19 6-12 Math in Motion From Middle to High School <b>Tim Harms</b>	31 9-College Bicycles, Tidal Waves and Sine Curves – Oh My! <b>Sherri Kruger</b>	52 6-12 Surviving Your Beginning Years – Preparing to Teach <b>L. Larson, M. Razvi-Rajek &amp; S. Streitz</b> <b>CONNECT</b>
Ballroom L	20 3-8 Clickers, Wikis, Standards...Oh My! <b>Darin Doherty, Margot Hansen and Kristie Boyer</b>	32 General Catch Them Before They Fall <b>Jill Freking</b>	53 6-12 Bits and Pieces <b>Janet Genord</b> <b>CONNECT</b>
Ballroom M/N	21 9-12 Closure-Making Every Minute Count: The Final Five Minutes <b>Stephanie Whitney</b>	33 3-8 Powerful Math PLCs <b>Cynthia Stevenson</b>	54 Pre-K-2 Visual Tools That Support Student Learning <b>Liz Stanson</b>
Ballroom O	22 3-5 Math Games to Boost Math Facts and Thinking <b>Brandon Bjerknes and Abe Schwartz</b>	34 3-8 MCA-III On-line Testing <b>Jennifer Dugan, Sandy Gimpl and Rosemary Heinitz</b>	55 9-12 High School Assessment Update <b>Jennifer Dugan, Sandy Gimpl and Rosemary Heinitz</b>

## FRIDAY AFTERNOON SESSIONS

ROOM	2:45 PM – 3:45 PM	4:00 PM – 5:00 PM
<b>Harbor Side 203</b>	56 Place Value: It's a Multiplicative Idea <b>James Brickwedde</b> Pre-K-5	77 One is Not Enough, Two or More <b>Sara VanDerWerf</b> 6-8
<b>Harbor Side 204</b>	57 Guided Math and Center Ideas You Can Use on Monday! <b>Sheila Knacke and Sara Utendorfer</b> 1-6	78 How Mathematics Has Been Used to Apportion Representatives in the U.S. House of Representatives <b>Peter Rejto and Julia Marasteanu</b> General
<b>Harbor Side 205</b>	58 Math/Engineering Initiative <b>Amy Riipinen and Bob Zbikowski</b> General	79 What We Have Learned as a Japanese Lesson Study Team <b>Bonnie Breza</b> 6-12/General
<b>Harbor Side 301</b>	59 The Use of Contest Problems in Standard Curricula <b>Mike Reiners</b> 6-12/General	80 Filling in Gaps for Nearly College-Ready Students <b>Mark Ahrens and Tony Dunlop</b> General
<b>Harbor Side 302</b>	60 What REALLY Works in Our Math Courses? Ask the Students! <b>Sara Van Asten</b> College	81 Does Anybody Really Know Time It Is? <b>Paul Kinion</b> General
<b>Harbor Side 303</b>	61 Toothpicks, Triangles and More <b>Sonja Goerdt</b> 6-8	82 Teaching Math With Literature <b>Kristin Cayo</b> K-5/General
<b>Harbor Side 304</b>	62 Reasoning and Sense Making in Geometry <b>Paul Kelley</b> 6-12	83 Math in Focus: Singapore Math Problem Solving Strategies <b>Sandy Stein</b> K-5
<b>Harbor Side 305</b>	63 Shift From "Doing PLCs" to Being a Professional Learning Community <b>Ellen Delaney</b> General	84 Teaching Proofs Through Computer Programming For Anyone <b>Casey Rutherford</b> 6-12
<b>Split Rock 2</b>	64 Venn Diagrams in Problem Solving <b>Timothy Peil</b> 6-12	85 What is RTI? <b>Judy Hansen</b> K-5
<b>Ballroom L</b>	65 Get Your Hands on Student Clickers <b>Barbara Kotzer</b> 3-12	86 Math Expressions Users Session – An Opportunity to Share <b>Judy Rohde</b> K-5
<b>Ballroom M/N</b>	66 Accountable Talk <b>Laura Burrell</b> Pre-K-5	87 Project-Based Learning and Mathematics <b>Colin O'Brien</b> 6-12
<b>Ballroom O</b>	67 MCA Support Material <b>Rosemary Heinitz, Jennifer Dugan and Sandy Gimpl</b> General	88 MN and The Common Core Standards Initiative <b>Sue Wygant</b> General

## FRIDAY AFTERNOON WORKSHOPS

ROOM	2:45 PM – 4:15 PM
<b>Registration Area</b>	<b>68</b> <span style="float: right;">6-8</span> Making Sense of Fractions, Decimals and Percents <b>Josea Eggink</b>
<b>French River 1</b>	<b>69</b> <span style="float: right;">6-College</span> The Rules of Engagement <b>Judy Stucki and Lisa Conzemius</b>
<b>French River 2</b>	<b>70</b> <span style="float: right;">6-College</span> BEAMS <b>Amber Severson and Glen Richgels</b>
<b>Gooseberry Falls 1</b>	<b>71</b> <span style="float: right;">3-8</span> Reading Strategies to Help Students With MCA Math Tests <b>Dr. Rhonda Bonnsetter and Dr. Debbie VanOverbeke</b>
<b>Gooseberry Falls 2</b>	<b>72</b> <span style="float: right;">6-12</span> Triangle Congruence: Why SSS, SAS, ASA, AAS, HL, but not SSA? <b>Cheryl Tucker</b>
<b>Gooseberry Falls 3</b>	<b>73</b> <span style="float: right;">Pre-K-2</span> Mental Images to Develop Structures 11-20 <b>Dorrie Novak and Jill Gentz</b>
<b>Harbor Side 202</b>	<b>74</b> <span style="float: right;">3-8</span> Making Your Math Smart <b>Abe Schwartz and Brandon Bjerknes</b>
<b>St. Louis River</b>	<b>75</b> <span style="float: right;">9-12</span> Geometry on the TI-Nspire for Beginners <b>Don Karlgaard</b>
<b>Split Rock 1</b>	<b>76</b> <span style="float: right;">9-College</span> Making Connections in Statistics: Teaching for Understanding <b>Gail Burrill</b>

## SATURDAY SESSIONS

ROOM	8:15 AM – 9:15 AM	9:25 AM – 10:25 AM	10:35 AM – 11:35 AM	11:45 AM - 12:45 PM
Harbor Side 203	89 6-12 Notebook Math Tools for the SmartBoard What We Know So Far! <b>Vangie Mattfield &amp; Amy Fox</b>	110 6-12 Activities and Ways to Use a SmartBoard in Your Classroom <b>William Awe</b>	131 General What I Learned About the SmartBoard Last Summer <b>Christopher Danielson</b>	152 K-5 What's Different About Teaching Math in the Classroom <b>Judy Hansen</b>
Harbor Side 204	90 6-12 What's New in Technology for Prentice Hall Math <b>Mike Altavilla and Denny Walsh</b>	111 Pre-K-2 Building Links Between Addition and Subtraction: Concepts and Number Facts <b>James Burnett</b>	132 6-College STEM Contexts for Meaningful Mathematics <b>Tamara Moore, Mi Sun Park and Young Rae Kim</b>	153 9-College/General Introduction to WeBWork <b>Jonathan Rogness and Justin Sukiennik</b>
Harbor Side 205	91 College Using Real Data From the Web in Math/Stat Classrooms <b>Deepak Sanjel</b>	112 College Facilitating Undergraduate Mathematics Education Research Goal <b>Irene Duranczyk</b>	133 3-12 Using Algeblocks to Create a Deeper Understanding for Algebra Concepts <b>Shannon Essler-Petty and Bret Benesh</b>	154 General A Variety of Strategies Using the Internet to Organize Your Classroom <b>Connie McTavish</b>
Harbor Side 301	92 6-12 Are You Using Sliders in Your Classroom? <b>Nicole Kellerman</b>	113 College Explorations of Simpson's Paradox <b>Bill Heider</b>	134 College One RCTC Math Assessment Project: How Are We Doing? <b>David Atwood</b>	155 6-12/General Applying for the MCTM Grant <b>Veronica Lunde and Barb Rasmussen</b>
Harbor Side 302	93 Pre-K-5 MATH BUDDIES: Cooperative Learning Across Grade Levels <b>Angie Bonik and Angie Olson</b>	114 6-12 Enhancing Geometry Using PowerPoint <b>Stephen Lien</b>	135 6-College My Journey Into the 21 <sup>st</sup> Century Classroom <b>Jamie Schnack</b>	156 3-8 Number Jumbler: An Activity to Reinforce Concepts and Stimulate Discussion <b>Paula Bengtson</b>
Harbor Side 303	94 9-College Student Understanding and Misconceptions of Sequences and Series <b>Dr. Rebecca Schmitz and Harvey Keynes</b>	115 3-12 Algebra Activities for the Middle Grades <b>Todd Frauenholtz and Craig Rypkema</b>	136 6-12/General Differentiated Assessments: Refined and Expanded <b>Marshall Thompson, Matthew Sauter and Stacey Haas</b>	157 3-8 Patterns in Modular Arithmetic (Clock Arithmetic) <b>RoseMary Hunt</b>
Harbor Side 304	95 6-12 How to Teach Math Online <b>Andrew Borne, Sandra Flint and James Welberg</b>	116 9-College/General Card Tricks and Math – A Magical Connection <b>Bill Eppright and David Johnson</b>	137 6-12 Quadrilateral Trivia and Senteo Clickers <b>Matthew Nohner and Josh Frie</b>	158 Pre-K-5 Talking to Parents About Math: Why the Changes? <b>James Brickwedde</b>
Harbor Side 305	96 K-12 Need More Time to Improve Those Test Scores? Devote Adequate Time Teaching Classroom Expectations <b>Peg Houle</b>	117 General IRV a New Phenomenon in Voting <b>Bill Putnam and Bill Johnson</b>	138 Pre-K-5 Reading a Math Book is Different Than Reading a Story <b>Nancy Nutting</b>	159 6-8 Games, Games, Games for the Middle School Math Classroom <b>Maggie Ballman, Megan Hiltner &amp; Sonja Goerd</b>
Split Rock 2	97 6-12/General ALEKS: Success in the Classroom <b>Chris Jones</b>	118 General Connecting Mathematics Leaders: An Informal Sharing Session <b>Sharon Stenglein</b>	139 Pre-K-2 Using Games and Center Activities to Support and Enhance Content <b>Paula Freidson</b>	160 3-College Dynamic Software-Use it to Help Your Students Learn Faster and Better <b>Lawrence Vettelson</b>
Ballroom L	98 7-College Using GeoGebra's New Spreadsheet and Animation Capabilities <b>Dave Matthews</b>	119 General Get Active! An Open Discussion on Active Learning <b>Nicole Lang and Sara Van Asten</b>	140 College <b>MinnMATYC Open Forum</b>	161 College <b>MinnMATYC Annual Business Meeting 11:15-12:45 pm</b>
Ballroom M/N	99 6-12 Surviving Your Beginning Years – Classroom Management <b>L. Larson, M. Razvi-Rajek &amp; S. Streitz CONNECT</b>	120 3-5 Visual Tools That Support Student Learning <b>Liz Stamson</b>	141 6-12/General Connecting Thinking and Reasoning to the Mathematics We Teach <b>Gail Burrill</b>	162 General Technology in the Math Classroom: A Sharing Session <b>Seth Leavitt and Rich Enderton</b>
Ballroom O	100 3-5 Using Patterns to Extend Algebraic Thinking <b>Patty Wallace</b>	121 General Minnesota and the Common Core State Standards Initiative <b>Sue Wygant</b>	142 3-8 How Can We Best Teach Fractions to Elementary Students <b>Joan Cotter</b>	163 6-8 10 Words <b>Sara VanDerWerf</b>

## SATURDAY SESSIONS AND WORKSHOPS

ROOM	8:15 AM – 9:15 AM	9:25 AM – 10:55 AM	11:15 AM – 12:45 PM
<b>Split Rock 1</b>	<b>101</b> 6-12/General Logic Puzzles and Deductive Reasoning: From Lions and Unicorns to Tweedledum and Tweedledee <b>Bill Tomhave</b>	<b>122</b> 3-8 Get Into the Fold: Active Notetaking in ANY Classroom <b>Sarah Davidson</b>	<b>143</b> 6-College Factoring Polynomials: It Doesn't Have to Be Difficult <b>Michael Simonet</b>
<b>Harbor Side 202</b>	<b>102</b> K-12 Video Lessons, Grades K-Algebra We've Finished! Get Your Free DVD <b>David Surver</b>	<b>123</b> 6-8 Going Deeper With Middle School Math Games and Activities <b>Larry Dorf</b>	<b>144</b> 6-12 Using Manipulatives in the Mathematics Classroom (They are for High School, too!) <b>Jessica Strom</b>
<b>Registration Area</b>	<b>103</b> 6-12 Beyond the Balance Model: Solving Equations <b>Stephanie Whitney</b>	<b>124</b> Pre-K-5 Reasoning and Sense Making in Addition, Subtraction, Multiplication & Division <b>Hank Kepner</b>	<b>145</b> 6-College Metric Olympics <b>Amber Severson and Glen Richgels</b>
<b>French River 1</b>	<b>104</b> 6-12 Activities and Projects for High School Mathematics <b>Sarah Hensel and Dana Hasselberg</b>	<b>125</b> 9-12 Biorhythms Project: Applying Trigonometric Concepts <b>Stan Goldade</b>	<b>146</b> 9-12 Exponential Explorations in Algebra 2 <b>Lisa Comfort</b>
<b>French River 2</b>	<b>105</b> 6-College The TI Ranger – Use it to Help Your Students Learn Slope <b>Glen Richgels</b>	<b>126</b> Pre-K-2 How Can We Best Teach Mathematics to Our Youngest Children <b>Joan Cotter</b>	<b>147</b> 3-5 Data: A Gateway to Learning Mathematics <b>Kay Wohlhuter</b>
<b>Gooseberry Falls 1</b>	<b>106</b> 3-12 Preparing Our Students for Success in Algebra <b>Jason Mitchell</b>	<b>127</b> 6-12 Multiplying and Factoring Polynomials Can be Concrete <b>Teresa Gonske &amp; Erin Lindsay</b>	<b>148</b> 6-12 Using Effective Study Teams in the Math Classroom <b>Josea Eggink</b>
<b>Gooseberry Falls 2</b>	<b>107</b> General Expanding Pre-service Teachers' Experiences in the Classroom <b>Alyssa Hesel and Lucy Payne</b> <b>CONNECT</b>	<b>128</b> 9-12 General Concepts or Procedures? Why Not Both? <b>Larry Copes and Betty Johnston</b>	<b>149</b> 3-5 MAGIC! MAGIC! "Squared" <b>Tricia Soupir and Marla Mastin</b>
<b>Gooseberry Falls 3</b>	<b>108</b> General Learning Styles + Differentiation = Enhanced Learning <b>Jane Reck</b>	<b>129</b> 6-12 Building Polyhedra <b>Stephanie Koth and Karen Hyers</b>	<b>150</b> Pre-K-2 The Anatomy of Story Problems <b>Bonnie Hagelberger</b>
<b>St. Louis River</b>	<b>109</b> 9-12 Using the TI-Nspire: A Session for Beginners <b>Lisa Conzemius</b>	<b>130</b> 6-12 Leave No Student Behind With TI-Nspire <b>Sharon Dailey</b>	<b>151</b> General Minnesota's Math Achievement Gap: Magnitude and Motivation <b>Dr. Mike Lindstrom and Ted Paukert</b>