

Wednesday, July 31



	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	7:00 PM	8:00 PM	
Hilton Cincinnati Netherland Plaza														
Rosewood Fourth Floor	MAA Congress Meeting 8:30 AM-5:00 PM													
Duke Energy Convention Center														
Grand Ballroom A Third Floor													PI Mu Epsilon J. Sutherland Frame Lecture 8:00 PM-8:50 PM	
Grand Ballroom B Third Floor											Exhibit Hall & Grand Opening Reception 6:00 PM-8:00 PM			
Grand Ballroom Lobby Third Floor								Registration & Information 3:00 PM-8:00 PM						
Room 200 Second Floor								PME Student Reception 4:15 PM-5:15 PM						
Room 206 Second Floor										Math Jeopardy 5:30 PM-6:15 PM				

Thursday, August 1

Duke Energy Convention Center	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	7:00 PM	8:00 PM
Grand Ballroom A Third Floor		MAA Invited Address (Radunskaya) 9:00 AM-9:50 AM	Joint Invited Address (Tardos) 10:00 AM-10:50 AM	Earle Raymond Hedrick Lecture 1 (DeMarco) 11:00 AM-11:50 AM			Lecture for Students (Omar) 1:30 PM-2:20 PM					President's Membership Jubilee 6:00 PM-7:30 PM	
Grand Ballroom B Third Floor		Exhibit Hall 9:00 AM-5:00 PM											
		General Contributed Poster Session I 10:00 AM- 10:45 AM						General Contributed Poster Session II 3:00 PM- 3:45 PM					
Grand Ballroom Lobby Third Floor	Registration & Information 8:00 AM-6:00 PM												
Junior Ballroom B Third Floor										Graduate Student Reception 5:00 PM-6:00 PM			
Junior Ballroom C Third Floor								Section Officers Meeting 3:00 PM-5:00 PM		Section NEXT Meeting 5:00-5:50 PM			
Room 200 Second Floor							IPS: Equity and Justice in the Context of Inquiry 1:30 PM- 4:20 PM			IBL SIGMAA Business Meeting & Reception 4:30 PM-5:50 PM			
Room 201 Second Floor		Workshop- Create and Recreate: A Celebration of Women in Recreational Mathematics 9:00 AM- 10:20 AM					Workshop- What's the Story? Research Presentations for an Undergraduate Audience 1:30 PM- 2:50 PM		Read the Masters Session: Euler's Introduction in Analysis Infinitorum 3:40 PM-5:40 PM				
Room 202 & 203 Second Floor		Minicourse 3A: Game Theoretic Modeling for Math Majors 9:00 AM- 11:00 AM					Minicourse 1A: Beyond Traditional Grading Schemes 1:30 PM- 3:30 PM		Minicourse 6A: Mathematical Card Magic 3:40 PM- 5:40 PM				
Room 204 Second Floor		Minicourse 4A: Introduction to WebWork: An Open Source Alternative to Generate and Deliver Online Homework Problems 9:00 AM- 11:00 AM					Minicourse 2A: Creating a Purposeful Student Learning Experience 1:30 PM- 3:30 PM		Minicourse 5A: Visualizing Projective Geometry Through Photographs and Perspective Drawings 3:40 PM- 5:40 PM				
Room 205 Second Floor							IPS: Cryptography and the Mathematics Behind It 1:30 PM- 4:20 PM			Speed Interviewing Marathon for Graduate Students 4:30 PM- 6:00 PM			
Room 206 Second Floor		TCPS: Recreational Mathematics: Puzzles, Card Tricks, Games, Gambling and Sports 9:00 AM- 10:40 AM					TCPS: Recreational Mathematics: Puzzles, Card Tricks, Games, Gambling and Sports 1:30 PM- 4:30 PM			SIGMAA REC Business Meeting 5:00 PM-5:50 PM			
Room 207 & 208 Second Floor		TCPS: Mathematics and the Life Sciences: Initiatives, Programs, Curricula 9:00 AM- 10:40 AM					TCPS: Mathematics and the Life Sciences: Initiatives, Programs, Curricula 1:30 PM- 3:30 PM						
Room 210 Second Floor		MAA SPS 8:30 AM- 10:45 AM							MAA SPS 2:30 PM- 6:05 PM				
Room 211 Second Floor		MAA SPS 8:30 AM- 10:45 AM							MAA SPS 2:30 PM- 6:05 PM				
Room 230 & 231 Second Floor		TCPS: Inquiry-Based Learning and Teaching 9:00 AM- 10:40 AM					TCPS: Inquiry-Based Learning and Teaching 1:30 PM- 3:30 PM		TCPS: Encouraging Effective Teaching Innovation 3:50 PM- 5:50 PM				
Room 232 Second Floor		TCPS: Math + X: Mathematics Courses, Curriculum, and Projects Serving Professional Disciplines 9:00 AM- 10:40 AM					TCPS: A Centennial Celebration of David Harold Blackwell 1:30 PM- 3:30 PM						
Room 233 Second Floor		TCPS: Plug and Play Data Science Lessons 9:00 AM- 10:40 AM					TCPS: Plug and Play Data Science Lessons 1:30 PM- 4:30 PM						
Room 237 & 238 Second Floor		TCPS: History of Mathematics in a Math Circle 9:00 AM- 10:40 AM					TCPS: History of Mathematics in a Math Circle 1:30 PM- 3:30 PM						
Room 251 Second Floor		MAA SPS 8:30 AM- 10:45 AM							MAA SPS 2:30 PM- 6:05 PM				
Room 260, 261, & 262 Second Floor		TCPS: Enhance Your Teaching through Best Practices That Align with the Instructional Practices Guide 9:00 AM- 10:40 AM					TCPS: Ethics in the Mathematics Classroom 1:30 PM- 4:10 PM						
Room 263 Second Floor							Panel- Living Proof: Stories of Struggle and Resilience on the Path to Becoming a Mathematician 1:30 PM-2:50 PM		Panel- Mathematical Knowledge for Teaching as an Integrated Application in Core Mathematics Major Courses 3:00 PM-4:20 PM				
Room 264 Second Floor		MAA SPS 8:30 AM- 10:40 AM							MAA SPS 2:30 PM- 6:05 PM				

Friday, August 2

Duke Energy Convention Center	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	7:00 PM	8:00 PM
Grand Ballroom A Third Floor		MAA Prize Session 9:00 AM-9:50 AM	Earle Raymond Hedrick Lecture 2 (DeMarco) 10:20 AM-11:10 AM	MAA Invited Address (Swanson) 11:20 AM-12:10 PM		AWM-MAA Etta Zuber Falconer Lecture (Holm) 1:30 PM-2:20 PM	Alder Award Session 2:30 PM-3:50 PM		NAM David Harold Blackwell Lecture & NAM Celebration (Houston) 4:00 PM-5:45 PM				
Grand Ballroom B Third Floor		Exhibit Hall 9:00 AM-5:00 PM											
						General Contributed Poster Session III 1:30 PM-2:15 PM		PosterFest 3:00 PM-4:30 PM					
Grand Ballroom Lobby Third Floor	Registration & Information 8:00 AM-6:00 PM												
Junior Ballroom B Third Floor											PME Banquet 6:00 PM-7:45 PM		
Junior Ballroom C Third Floor				A Conversation with AMS and MAA 11:20 AM-12:10 PM			Color Addition Across the Spectrum of Mathematics 1:30 PM-2:20 PM						Undergraduate Ice Cream Social 8:00 PM-9:00 PM
Junior Ballroom D Third Floor			TCPS: Professional Development in Mathematics: Looking Back, Looking Forward, on the Occasion of the 25th Anniversary of MAA Project NeXT 10:10 AM-12:10 PM				TCPS: Professional Development in Mathematics: Looking Back, Looking Forward, on the Occasion of the 25th Anniversary of MAA Project NeXT 1:30 PM-3:10 PM						
Room 200 Second Floor			IPS- The Mathematics of Uncertainty 10:10 AM-12:00 PM			IPS- The Serious Side of Recreational Mathematics 1:30 PM-4:20 PM							
Room 201 Second Floor			Workshop- Journal of Math Circles Jam Session 10:10 AM-11:30 AM			Workshop- The Mathematics of Gerrymandering: Engaging and Authentic Tasks with Civic Significance 1:30 PM-2:50 PM		Town Hall- Quantitative Literacy and Social Justice 3:00 PM-4:20 PM					
Room 202 & 203 Second Floor			Minicourse 3B: Game Theoretic Modeling for Math Majors 10:00 AM-12:00 PM						Minicourse 6B: Mathematical Card Magic 3:40 PM-5:40 PM				
Room 204 Second Floor			Minicourse 4B: Introduction to WeBWork: An Open Source Alternative to Generate and Deliver Online Homework Problems 10:00 AM-12:00 PM						Minicourse 5B: Visualizing Projective Geometry Through Photographs and Perspective Drawings 3:40 PM-5:40 PM				
Room 205 Second Floor						IPS- Mathematical Diversity in Mathematical Biology 1:30 PM-5:20 PM							
Room 206 Second Floor			TCPS: Mathematics Through Games 10:10 AM-12:10 PM				TCPS: Mathematics Through Games 1:30 PM-3:30 PM						
Room 207 & 208 Second Floor			TCPS: Understanding Mathematics Through its History 10:10 AM-12:10 PM				TCPS: Understanding Mathematics Through its History 1:30 PM-4:30 PM						
Room 210 Second Floor	MAA SPS 8:30 AM-10:40 AM							MAA SPS 2:30 PM-6:05 PM					
Room 211 Second Floor	MAA SPS 8:30 AM-10:45 AM							MAA SPS 2:30 PM-6:05 PM					
Room 230 & 231 Second Floor			TCPS: Inquiry-Based Learning and Teaching 10:10 AM-12:10 PM				TCPS: Inquiry-Based Learning and Teaching 1:30 PM-2:50 PM						
Room 232 Second Floor				National Science Foundation Funding Opportunities 10:10 AM-11:00 AM				EstimationI 4:00 PM-5:45 PM					
Room 233 Second Floor			TCPS: Showcase of Modeling to Motivate Differential Equations 10:10 AM-12:10 PM				TCPS: Showcase of Modeling to Motivate Differential Equations 1:30 PM-4:30 PM						
Room 237 & 238 Second Floor			TCPS: Encouraging Effective Teaching Innovation 10:10 AM-12:10 PM				TCPS: Encouraging Effective Teaching Innovation 1:30 PM-4:30 PM				SIGMAA TAHSM Business Meeting & Reception 6:00 PM-7:30 PM		
Room 260, 261 & 262 Second Floor			TCPS: Diversity, Equity, and Inclusion in Mathematics 10:10 AM-12:00 PM				TCPS: Diversity, Equity, and Inclusion in Mathematics 1:30 PM-4:30 PM						
Room 263 Second Floor			Panel- Career Paths in Business, Industry, and Government 10:10 AM-11:30 AM			Panel- MAA Departmental Membership: Taking it to the Next Level 1:30 PM-2:50 PM		Panel- Jumping into IBL Teaching: Reflections by First-Time Practitioners 3:00 PM-4:20 PM			SIGMAA Sports Business Meeting & Reception 6:00 PM-7:30 PM		
Room 264 Second Floor	PME SPS 8:30 AM-10:45 AM							PME SPS 2:30 PM-6:05 PM					

Saturday, August 3

Duke Energy Convention Center	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	7:00 PM	8:00 PM
Grand Ballroom A Third Floor		James R. C. Leitral Lecture (Gutierrez) 9:00 AM-9:50 AM	Earle Raymond Hedrick Lecture 3 (DeMarco) 10:00 AM-10:50 AM	MAA Invited Address (Christ) 11:00 AM-11:50 AM				Martin Gardner Lecture (Demaine) 2:00 PM-2:50 PM					
Grand Ballroom B Third Floor		Exhibit Hall 9:00 AM-12:30 PM											
Grand Ballroom Lobby Third Floor	Registration & Information 8:00 AM-3:00 PM												
Junior Ballroom B Third Floor		Julia Robinson Mathematics Festival 10:00 AM- 12:00 PM											
Junior Ballroom D Third Floor		Great Talks for a General Audience 9:00 AM- 1:00 PM					MAA Business Meeting 1:15 PM-1:45 PM						
Room 200 Second Floor		IPS- Commutative Algebra 9:00 AM-11:50 AM											
Room 201 Second Floor									Workshop- Origami Boxes full of Mathematics 3:00 PM-4:20 PM				
Room 204 Second Floor										Minicourse 2B: Creating a Purposeful Student Learning Experience 3:00 PM- 5:00 PM			
Room 205 Second Floor		Workshop- Get the Facts Out! 9:00 AM- 10:20 AM	TCPS: Encouraging Effective Teaching Innovation 10:30 AM-12:10 PM				TCPS: Encouraging Effective Teaching Innovation 1:30 PM- 4:20 PM						
Room 206 Second Floor		TCPS: Mathematics and Sports 9:00 AM- 12:00 PM											
Room 207 & 208 Second Floor		TCPS: My Favorite Number Theory Proof 9:00 AM- 11:20 AM											
Room 230 & 231 Second Floor		TCPS: Building Teaching Teams: Professional Development in Departments 9:00 AM- 10:40 AM											
Room 232 Second Floor		TCPS: Diversity, Equity, and Inclusion in Mathematics 9:00 AM- 11:00 AM											
Room 233 Second Floor		TCPS: Recreational Mathematics: Puzzles, Card Tricks, Games, Gambling and Sports 9:00 AM- 11:40 AM											
Room 237 & 238 Second Floor				SIGMAA on Undergraduate Research Panel & Lunch 11:30 AM- 1:00 PM									
Room 260, 261 & 262 Second Floor		TCPS: Math + X: Mathematics Courses, Curriculum, and Projects Serving Professional Disciplines 9:00 AM- 11:20 AM											
Room 263 Second Floor		Panel- Building a Community of Practice to Prepare Graduate Students to Teach Undergraduate Mathematics 9:00 AM- 10:20 AM		Panel- Graduate School in Mathematics: What's It Like, and How Do You Get In? 10:30 AM- 11:50 AM									
Room 264 Second Floor		USA Problem Solving Competition 9:00 AM- 10:30 AM							Backgammon 3:00 PM- 5:00 PM				