

**9th International Conference of
Maθematics Education and Society**

Program

7-12 April, Volos, 2017



9th International Mathematics Education and Society (MES9) Conference

International Committee

Yasmine Abtahi University of Ottawa, Canada
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Organization

Department of Early Childhood Education
School of Human and Social Sciences



University of Thessaly
<http://ece.uth.gr>

Argonafton & Filellinon
Volos, 382 21, Greece

Venue

Valis Hotel, Agria, Volos

<http://mes9.ece.uth.gr>



14.00 – 17.00	Registration	Foyer Valis
17.00	Opening	Valis Grand Ball Room
	Welcome	
	MES 9 Anna Chronaki	
	From MES 1 to MES 9 Peter Gates	
	Developing MES Community Beth Herbel-Eisenmann	
18.30 – 18.40	Volos: Social, Educational and Cultural Initiatives in the first decades of the 20th century Annita Prassa General State Archives of Magnesia	
18.40 – 20.00	Post-political biopower and heteropolitical youth resistances in the years of the Greek crisis Alexandros Kioupiolis Aristotle University of Thessaloniki	
	Reactors: Eric Gutstein , Anita Rampal	
20.00 – 21.00	Music Ensembles	
21.00	Reception	

8th April, Saturday

8.45	Plenary	Valis Grand Ball Room
Mathematical Futures: Discourses of Mathematics in Fictions of the Post 2008 Financial Crisis Heather Mendick		
9.40	Reactors: Gelsa Knijnik, David Kollosche	
10.00 – 10.30	Coffee	
10.30 – 11.30	Working Groups	
11.30 – 12.30	Plenary Response Session	
12.30 – 14.00	Lunch	
14.00 – 16.00	Paralell Presentations	
Unpacking Dominant Discourses		Iolkos Room
Historicizing “Math For All” Ayşe Yolcu		
Bildung, Mathematical Literacy and Civic Education: The (Strange?) Case of Contemporary Austria and Germany Andreas Vohns		
Old and New Naturalized Truths in Mathematics Education Panagiotis Spyrou, Andromachi Karagiannidou, Villy Michelakou		
Gamification, Standards and Surveillance in Mathematics Education: An Illustrative Example Eva Jablonka		
Race, Class, Caste		Pilio Room
Researching “Race” without Researching White Supremacy in Mathematics Education Research: A Strategic Discursive Practice David Stinson		
Working Class, Intelligentsia and the “Spirit of Generalization” Bronislaw Czarnocha		
Beyond Poverty and Development: Caste Dynamics and Access to Mathematics Education in India Jayasree Subramanian		
Examining Relations Between Students’ Perception of “Being Known” and their Mathematics and Racial Identities Tanner Wallace, Charles Munter		
Mathematical Temporalities		Zeus Room
Multimathemacy: Time to Reset? Karen François, Rik Pinxten		
Thinking Forward: Using Stories From the Recent Past in Mathematics Education in England Hilary Povey, Gill Adams		
When an Education Ideology Travels: The Experience of the New Math Reform in Luxembourg Shaghayegh Nadimi (Chista)		
Assembling MathLife Chronotopes Anna Chronaki		
Mathematics in Higher Education		Argo Room
College Instructors’ Attitudes Toward Statistics Hyung Won Kim, Xiaohui Wang, Bongju Lee, Angelica Castillo		
Moving Up or Down the Ladder: University Mathematics Students Talk About Progress Kate le Roux		
An Empirical Study into Difficulties Faced by ‘Hindi Medium Board Students’ in India at Undergraduate Mathematics and its Social Implications Kumar Gandharv Mishra, Jyoti Sharma		
Working with Peers as a Means for Enhancing Mathematical Learning at University Level: Preliminary Investigation of Student Perceptions Marios Ioannou (project)		
Symposium		Artemis Room
Ethnomathematics Meets Curriculum Theory through Crisis Peter Appelbaum, Charoula Stathopoulou, Milton Rosa, Daniel Clark Orey, Samuel Edmundo Lopez Bello, Dalene Swanson, Franco Favilli, Fiorenza Toriano, Robert Klein, Miriam Amrit		
Symposium		Valis Grand Ball Room
Majority Counts: What Mathematics for Life, to deal with Crises? Brian Greer, Rochelle Gutiérrez, Eric Gutstein, Swapna Mukhopadhyay, Anita Rampal		
16.00 – 16:30	Coffee	

8th April, Saturday

16.30 – 18.30 Paralell Presentations		
The Neoliberal Teacher		Iolkos Room
What is Desired and the Governing of the Mathematics Teacher Alex Montecino		
Fears and Desires: Researching Teachers in Neoliberal Contexts Lisa Darragh (project)		
Be the Best Version of Your Self! OECD'S Promises of Welfare Through School Mathematics Melissa Andrade-Molina		
Competence-Based Teacher Education – Revisited Johanna Ruge		
Equity Reconsidered		Pilio Room
Equity in a College Readiness Math Modelling Program: Limitations and Opportunities Susan Staats, Douglas Robertson		
Macroinclusion and Microexclusion in Mathematics Education Ana Carolina Faustino, Amanda Queiroz Moura, Guilherme Henrique Gomes da Silva, João Luiz Muzinatti, Ole Skovsmose		
Resolving Challenges when Teaching Pre-Service Mathematics Teachers through a Lens of Equity Laura McLeman, Eugenia Vomvoridi-Ivanović (project)		
Identity Urgencies		Zeus Room
Identity Change Through Inner and Outer Driving Forces for Studying Mathematics in the Swedish Prison Education Program Ola Helenius, Linda Ahl (project)		
Sociopolitical Mathematics Teacher Identity: Mathography as Window Emma Carene Gargroetzi, Brian Lawler (project)		
The Relevance of Pre-Service Teachers' Funds of Knowledge in their Adaptations of Mathematics Lessons Carlos LópezLeiva (project)		
Academic Agency: A Framework for Responsibility Lisa Poling, Tracy Goodson-Espy		
Developing Activity, Tasks and Creativity		Argo Room
Development and Contextualization of Tasks from an Ethnomathematical Perspective Veronica Albanese, Natividad Adamuz-Povedano, Rafael Bracho-López		
Creative Insubordination Aspects Found in Ethnomodelling Milton Rosa, Daniel Clark Orey		
When Geometry Meets the Language of Arts: Questioning the Disciplinary Boundaries of a School Curriculum Panagiota Kotarinou, Eleni Gana, Charoula Stathopoulou		
Symposium		Artemis Room
Race, Racism, and Mathematics Education: Local and Global Perspectives Luz Valoyes-Chávez, Danny Martin, Joi Spencer, Paola Valero, Anna Chronaki		
Symposium		Valis Grand Ball Room
"Crisis" and Interface with Mathematics Education Research and Practice: An Everyday Issue Aldo Parra, Arindam Bose, Jehad Alshwaikh, Magda González, Renato Marccone, Rossi D'Souza		
18.30 – 20.30	Agora I	Valis Grand Ball Room
20.30	Dinner	
21.30	Mujaawarah	Valis Grand Ball Room
		

9th April, Sunday

8.45	Plenary	Valis Grand Ball Room
Biosocial Becomings: Rethinking the Biopolitics of Mathematics Education Research Elisabeth de Freitas		
9.40	Reactors: Karen Francois, Andreas Moutsios-Rentzos with Panayiotis Spyrou	
10.00 – 10.30	Coffee	
10.30 – 11.30	Working Groups	
11.30 – 12.30	Plenary Response Session	
12.30 – 14.00	Lunch	
14.00 – 16.00	Parallell Presentations	
Ideology and the Subject		Iolkos Room
The Ideology of Relevance in School Mathematics David Kollosche		
The Repression of the Subject? - Quilting Threads of Subjectivization Felix Lensing		
The Subject of Mathematics Education Research Alexandre Pais		
Children, Policies, Politics		Zeus Room
Where are the Children? An Analysis of News Media Reporting on Mathematics Education Yasmine Abtahi, Richard Barwell		
Fabrication of Newly Arrived Students as Mathematical Learners in Swedish Policy Eva Norén, Petra Svensson Källberg		
The Construction of the Mathematical Child in Swedish Preschool Laurence Delacour (project)		
Social Aspects of Undergraduate Mathematics Students' Learning: Preparing for The Coursework Marios Ioannou		
Discourses of Dis/Ability		Pilio Room
Ableism in Mathematics Education: Ideology, Resistance and Solidarity Rossi D'souza		
From Policy to Practice: Discourses of Mastery and "Ability" in England Candia Morgan		
'Sets 4 and 5 Were Stuffed Full of Pupil Premium Kids': Two Teachers Experiences of 'Ability' Grouping Colin Jackson		
Social Justice Revisited		Argo Room
Coming to Understand the Big Issues: Remaking Meaning of Social Justice Through Mathematics Across the School Year Frances Harper		
Teaching Mathematics for Social Justice: Transforming Classroom Practice Pete Wright		
Challenges in Dealing with Social Justice Concerns in Mathematics Classrooms Shikha Takker		
Symposium		Artemis Room
Neoliberalism: A Crisis for Mathematics Education? Lisa Darragh, Lisa Björklund Boistrup, Paola Valero, Gill Adams, Hilary Povey		
Symposium		Kentavros Room
Ethnomathematics Meets Curriculum Theory through Crisis Peter Appelbaum, Charoula Stathopoulou, Milton Rosa, Daniel Clark Orey, Samuel Edmundo Lopez Bello, Dalene Swanson, Franco Favilli, Fiorenza Toriano, Robert Klein, Miriam Amrit		
Poster Session		Valis Grand Ball Room
Why Do We Need Them to Be Different Low Achieving Children's Conceptions of Unit Fraction Jessica Hunt, Arla Westenskow, Patricia Moyer-Packenham		
Math, Social Justice, and Prospective Teachers in U.S.A. and Uruguay: Learning Together Paula Guerra, Woong Lim, Raisa Lopez		
Enhancing Students Quantitative Literacy Skills: Using Google Drive as a Collaboration Tool for Interactive Online Feedback Michelle Henry, Jumaní Clarke, Sheena Rughubar-Reddy, Ian Schroeder		
Doing Research with Teachers: Ethical Considerations that Shaped the Researcher Stance Annie Savard		
Mathematical Fiction in Education: Text in Action Eleni Kontaxi, Stella Dimitrakopoulou		
AnthropoGeometries in the UrbanScape: Interrogating the Echo of Geometry Anna Chronaki, Chrysa Papasasantou, Irene Lazaridi, Efi Manioti, Magda Koumparelou, Giorgos Giannikis		
16.00 – 16:30	Coffee	

9th April, Sunday

16.30 – 18.30		Paralell Presentations
Ethical Encounters in the Field		Iolkos Room
<i>Diversity in Meanings as an Issue in Research Interviews</i> Helena Grundén		
<i>Tensions and Dilemmas as Source of Coherence</i> Jehad Alshwaikh , Jill Adler		
<i>How Local are Local People? Beyond Exoticism</i> Eric Vandendriessche , José Ricardo e Souza Mafra , Maria Cecilia Fantinato , Karen François		
Learners in their Social Contexts		Pilio Room
<i>Investigating Parental Influences on Sixth Graders' Mathematical Identity: The Case of Attainment</i> Sonia Kafoussi , Andreas Moutsios-Rentzos , Petros Chaviaris		
<i>What is the Role of Value Alignment in Engaging Mathematics Learners?</i> Penelope Kalogeropoulos , Alan Bishop		
<i>Love and Bullying in Mathematical Conversations</i> Annica Andersson , David Wagner		
<i>Social Inquiry with Mathematics in two High School Classrooms</i> Anastasia Brelías		
Teachers Professional Growth		Zeus Room
<i>Pedagogical and Mathematical Capital: Does Teacher Education Make a Difference?</i> Robyn Jorgensen (Zevenbergen), Tom Lowrie		
<i>Mathematics Teacher Professional Development Toward Equitable Systems: Weaving Together Mathematics, Discourse, Community, Positionality, and Action Research</i> Ashley Scroggins , Beth Herbel-Eisenmann , Frances Harper , Tonya Bartell		
<i>Mathematics Teachers' Professional Learning</i> Iben Christiansen , Kicki Skog , Sarah Bansilal (project)		
Gender, Power, Mathematics		Argo Room
<i>Recrafting Manipulatives: Toward a Critical Analysis of Gender and Mathematical Practice</i> Melissa Gresalfi , Katherine Chapman		
<i>Understanding Relations of Power in the Mathematics Classroom: Explorations in Positioning Theory</i> Jennifer Langer-Osuna , Maxine McKinney de Royston		
<i>Performing Girl and Good at Mathematics: Scripts in Young Adult Fiction</i> Lisa Darragh (project)		
Symposium		Artemis Room
<i>Beyond the Box: Rethinking Gender in Mathematics Education Research</i> Margaret Walshaw , Anna Chronaki , Luis Leyva , David Stinson , Dalene Swanson , Kathy Nolan , Heather Mendick		
Symposium		Valis Grand Ball Room
<i>Inside Critical/Radical Mathematics Education: A Video Exploration</i> Maisie Gholson , Patricia Buenrostro , Lindsey Mann , Eric Gutstein , Mark Hoover		
19:30 – 20.30		Open Talk
<i>Science and Orthodox Christianity: a conflictual relationship?</i> Efthymios Nicolaidis Institute of Historical Research, National Hellenic Research Foundation		
		Reactor: Rik Rinxten
20.30	Dinner	
21.30	Swing Night Trio	

10th April, Monday

8.45	Plenary	Valis Grand Ball Room
From 'isms' Groups to Justice Communities: Intersectional Analysis and Critical Mathematics Education Erica Bullock		
9.40	Reactors: Paola Valero, Jayasree Subramanian	
10.00 – 10.30	Coffee	
10.30 – 11.30	Working Groups	
11.30 – 12.30	Plenary Response Session	
12.30 – 13.30	Lunch	
13.30 – 15.30	Teachers, Mathematics Education and Society	Valis Grand Ball Room
	Excursions & Free Evening	



11th April, Tuesday

8.45	Plenary	Valis Grand Ball Room
'Numbers Have the Power' Or the Key Role of Numerical Discourse in Establishing a Regime of Truth about Crisis in Greece Dimitris Chassapis		
9.40	Reactors: Fragkiskos Kalavasis, Alex Pais	
10.00 – 10.30	Coffee	
10.30 – 11.30	Working Groups	
11.30 – 12.30	Plenary Response Session	
12.30 – 14.00	Lunch	
14.00 – 16.00	Parallell Presentations	
Crisis, Education, Mathematics		Iolkos Room
On the Entanglement of Mathematics Remediation, Gatekeeping, and the Cooling-Out Phenomenon in Education Gregory Larnell		
No, we didn't Light it, But we Tried to Fight it: Acknowledging and Connecting an Acute Crisis Jeffrey Craig, Lynette Guzmán (project)		
Mathematics and Human Flourishing Samuel Luke Tunstall		
Critical Mathematics Education and Social Inquiry		Pilio Room
Using CME to Empower Prospective Teachers (and Students) Emerge as Mathematical Modellers Nirmala Naresh, Lisa Poling, Tracy Goodson-Espy		
Categories of Critical Mathematics Based Reflections on Climate Change Kjellrun Hiis Hauge, Peter Gotze, Ragnhild Hansen, Lisa Steffensen		
Extending the Landscapes of Mathematical Investigation through Philosophical Inquiry Nadia Stoyanova Kennedy		
Empowering Students in Citizenship: Teaching Mathematics and Learning Financial Concepts Annie Savard (project)		
Space(s) for Mathematical Experience		Zeus Room
Reconfiguring Mathematical Settings and Representations Through Whole-Body Collaboration Jasmine Ma, Molly Kelton		
Social Nature of Mathematical Reasoning: Problem Solving Strategies of Middle Graders' with Diverse Out-of-School Experience Arindam Bose		
The Shape of Taping Shape: Visitor Experiences with an Immersive Mathematics Exhibition Molly Kelton, Bohdan Rhodehamel, Cierra Rawlings, Patti Saraniero, Ricardo Nemirovsky (project)		
Discussion Group		Argo Room
Assessing and Accessing Learning Experiences of Refugee Students and Teachers Anna Jobe, Anna Chronaki, Christine Knipping, Lena Anderson, Peter Bengston, Efthalia Balla, Eirini Lazaridou, Olga Ntasioti, Eirini Avgoustaki, Ismini Sotiri, Dalene Swanson, Nuria Planas, Candia Morgan		
Symposium		Artemis Room
Ethnomathematics and Reconciliation Lisa Lunney Borden, David Wagner		
16.00 – 16:30	Coffee	

11th April, Tuesday

16.30 – 18.30	Paralell Presentations																																																				
	<table> <tr> <th>First Nation, Indigenous People, Rural Communities</th><th>Iolkos Room</th></tr> <tr> <td>Reflections on Pedagogy in a Remote Indigenous Community Dianne Siemon</td><td></td></tr> <tr> <td>Mathematics Learning and Social Background: Studying the Context of Learning in a Secondary School in a Semi Rural Area of Maharashtra Varsha Sadafule, Maxine Berntsen</td><td></td></tr> <tr> <td>Prioritizing Visual Spatial Mathematical Approaches in First Nation Early Years Classrooms Joan Moss, Bev Caswell, Zachary Hawes, Jason Jones</td><td></td></tr> <tr> <td>Developing 'Quality' Teachers in Remote Indigenous Contexts: Numeracy Leaders Robyn Jorgensen (Zevenbergen)</td><td></td></tr> <tr> <th>Dialogue, Mathematising, Thinking</th><th>Pilio Room</th></tr> <tr> <td>"How did you get to that Result?": The Process of Holding a Dialogue in Math Classes of the Early Years of Primary School Ana Carolina Faustino (project)</td><td></td></tr> <tr> <td>Strengthening the Ways of Mathematising of Mapuche People at the School Huencho Anahí (project)</td><td></td></tr> <tr> <td>The Process of Dialogue in Teaching and Learning Mathematics with Deaf and Hearing Students Amanda Queiroz Moura, Miriam Godoy Penteado (project)</td><td></td></tr> <tr> <td>Social Creativity in the Design of Digital Resources to Afford Creative Mathematical Thinking Chronis Kynigos, Maria Daskolia, Ioannis Papadopoulos (project)</td><td></td></tr> <tr> <th>Developing Mathematical Concepts</th><th>Zeus Room</th></tr> <tr> <td>Statistics Education: An Alternative for Children in Literacy Cycle to Develop the Number Sense Maria Lúcia Wodewotzki, Sandra Gonçalves Vilas Bôas Campos</td><td></td></tr> <tr> <td>The Concept of the Tangent in the Transition from Euclidean Geometry to Analysis – A Visualization via Touch Panagiotis Stavropoulos, Maria Toultsinaki</td><td></td></tr> <tr> <td>Developing Concepts in a Study of Mathematics Learning Pathways Jasmine Ma, Molly Kelton 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12th April, Wednesday

9.00 – 10.00	Final Discussion Session	Valis Grand Ball Room
10.00 – 10.30	Coffee	
10.30 – noon	Agora II, Closing	Valis Grand Ball Room
	Lunch	

9th International Mathematics Education and Society (MES9) Conference

Organization

Department of Early Childhood Education
School of Human and Social Sciences



University of Thessaly

<http://ece.uth.gr>

Volunteers

Asimina Angeli, Mariana Athanasouli, Kleopatra Barda, Violeta Eleni Bliγιannou, Angelos Bourdakis, Maria-Rafaela Bourdaki, Michail Boutis, Rizos Chaliampalias, Yannis Constantinides, Vaggelis Diplas, Areti Efstathiou, Vithleem Eftychiadou, Ifigenia Iliopoulou, Paraskeui Kaltsa, Theodora Kaplani, Charalampos Kotteakos, Christina Koufou, Magda Koumparelou, Freideriki Kourdi, Spyros Kourias, Efthymia Krikoni, George Kyriakopoulos, Irene Lazaridou, Vasiliki Lytaki, Nikos Makrakis, Efi Manioti, Eleni Matou, Panagiota Mytiliου, Vasilis Nanouris, Vasiliki Ntagka, Anastasia Oikonomou, Melina Orachidou, Marianthi Ortantzoglou, Irini Pata, Aggeliki Pisimisi, Evdokia Potamia, Georgia Sakellariou, Dimitris Sklavos, Ismini-Marina Sotiri, Foteini Terzi, Varvara Toura, Myrsini Tzortzaki, Eleni Vasileiou, Andriani Vassiou.

Reviewers

Yasmine Abtahi, Veronica Albanese, Annica Andersson, Melissa Andrade Molina, Tonya Bartell, Hannah Bartholomew, Richard Barwell, Mark Boylan, Erika Bullock, Dimitris Chassapis, Anna Chronaki, Daniel Clark Orey, Tony Cotton, Lisa Darragh, Karen Francois, Peter Gates, Miriam Godoy, Brian Greer, Melissa Gresalfi, Helena Grundén, Rochelle Gutiérrez, Eric (Rico) Gutstein, Victoria Hand, Beth Herbel-Eisenmann, Kjellrun Hiis Hauge, Jessica Hunt, Nadia Jaber, Eva Jablonka, Robyn Jorgensen (Zevenbergen), Sonia Kafoussi, Penelope Kalogeropoulos, David Kollosche, Donna Kotsopoulos, Gregory Larnell, Brian Lawler, Felix Lensing, Lisa Lunney Borden, Danny Martin, Swapna Maukhopadhyay, Heather Mendick, Monica Mesquita, Alex Montecino, Candia Morgan, Andreas Moutsios-Rentzos, Nirmala Naresh, Eva Norén, Lisa Österling, Herine Otieno, Alexandre Pais, Aldo Parra, Yannis Pechtelidis, Nuria Planas, Hilary Povey, Anita Rampal, Milton Rosa, Kate le Roux, Natalia Ruiz López, Annie Savard, Ali Sikunder, Kicki Skog, Charoula Stathopoulou, David Stinson, Hauke Straehler-Pohl, Jayasree Subramanian, Wee Tiong Seah, Anna Tsatsaroni, Paola Valero, Luz Valoyes-Chávez, Eric Vandendriessche, David Wagner, Ayşe Yolcu.

Sponsors



ΕΚΔΟΣΕΙΣ
GUTENBERG

Credits

The conference's banners consist of a collage of Street Artists' graffiti works.
The covers of the conference's program and proceedings are artwork by Banksy.
We would like to thank STMTS (www.stmtsart.com), Bleeps (www.bleeps.gr) and Dimitris Taxis (www.instagram.com/o_taxis/) for their contributions.

