

MIC STEM Education Conference Programme

Day 1: Friday May 22nd- Research Day

08.30am – 09.30am	Registration		
09.30am – 09.50am	Opening Address (Room: T118) Jan O Sullivan, Minister for Education (2014-2016)		
09.50am - 10.20am	National Council for Curriculum and Assessment (NCCA) (Room: T118) Overview of the Primary STEM Curriculum		
10.20am - 11.30am	Parallel Sessions 1	Room 1: T213	Room 2: T214
		Denis Moynihan & Anne Mc Murrough Dublin City University <i>Empowering the Future-Ready Classroom: Professional Learning and Robotics as Catalysts for Integrated STEM in Irish Primary Schools (iSTEM focus: T, E)</i> Claire Carroll Mary Immaculate College, Limerick <i>From Curriculum to Classroom: Enacting Computational Thinking in Primary STEM Education (iSTEM focus: T, M)</i>	Michelle Fitzpatrick, Mairéad Hourigan, Aisling Leavy, Claire Carroll, Breed Murphy, Mairéad Ryan & Anne O'Dwyer and primary teachers from Scoil Mhathair Dé Mary Immaculate College, Limerick <i>SPARK: Connecting Integrated STEM Learning to Real-World Societal Issues Through School–University Partnerships (iSTEM focus: S, T, M)</i> Margaret Leahy, Cliona Murphy, Lorraine Harbison, Hamsa Venkat & Greg Smith Dublin City University <i>Fancy Feet: Research Insights into Collaborative Integrated STEM in Initial Teacher Education (iSTEM focus: S, T, E, M)</i>
11.30am - 12.00pm	Tea/ Coffee		

12.00pm - 1.30pm	Parallel Sessions 2	Room 1: T213	Room 2: T214
		Anne Marie Morrin Mary Immaculate College, Limerick <i>Learning Made Visible: Arts Education, STEM, and Student Self Evaluation in Initial Teacher Education. (iSTEM Focus: S, T, A, M)</i> June Pisaneschi Maynooth University <i>A Froebelian approach to curriculum integration in ITE (iSTEM focus: S, M)</i>	Cliona Murphy, Denis Moynihan, Orla Kelly, Lorraine Harbison & Hsiao-Ping Hsu Dublin City University <i>Starting Points for iSTEM: From Disciplinary Roots to Integrated Practice (iSTEM Focus: S, T, M)</i> Mairéad Hourigan, Michelle Fitzpatrick, Mairéad Ryan, & Anne O'Dwyer Mary Immaculate College, Limerick <i>Collaborative Growth: Using Lesson Study to advance STEM Teacher Educators' Professional Learning (iSTEM Focus: S, M)</i>

		Edward Corry, Aisling Leavy, Mairéad Hourigan & Anne O'Dwyer Mary Immaculate College, Limerick <i>From STEAMing to PROTECT: The Evolution of Integrated STEAM Engagement across two Erasmus+ Projects (iSTEM focus: S, T, E, A, M)</i>	Michelle Fitzpatrick, Mairéad Hourigan, Aisling Leavy, Claire Carroll & Breed Murphy Mary Immaculate College, Limerick <i>More Than a Supporting Actor: Mathematics in Integrated STEM (iSTEM focus: S, T, E, M)</i>
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1.30pm - 2.15pm	Lunch			
2.15pm - 3:45pm	Parallel Sessions 3	Room 1: T213 Aisling Leavy, Mairéad Hourigan, Michelle Fitzpatrick, Claire Carroll & Breed Murphy and 4th year maths specialism student teachers Mary Immaculate College, Limerick <i>Game-Based Approaches to Integrated STEM: Supporting Mathematical Understanding through Minecraft (iSTEM focus: T, M)</i> Michael Mc Namara Mary Immaculate College, Limerick <i>Virtually There: Exploring the Use of VR to Support and Enhance STEM Education Beyond the Classroom Walls (iSTEM focus: S, T, E, M)</i> Helena O' Connor Mary Immaculate College, Limerick <i>STEM through a playful learning approach in the junior classes (iSTEM focus: S, T, E, M)</i>	Room 2: T214 Ayşegül Liman Kaban Mary Immaculate College, Limerick Tugce Aybikem Kiran & Leila Jedi Sari Biglar Bahcesehir University, Istanbul, Turkiye <i>Creating Interactive Learning with Mixed Reality in Primary Education (iSTEM focus: S, T, E, M)</i> John Mescal & Maureen Kenneally Hibernia College <i>From Elective to Practice: Pre-Service Primary Teachers' Understanding of Problem-Solving and Computational Thinking as Integrated STEM Pedagogy (iSTEM focus: S, T, M)</i> Maeve Liston & Eleanor Walsh Mary Immaculate College, Limerick <i>Building Strong STEAM Foundations through CRAFT: How a Model of Educational Outreach and Maker Education Supports the New Primary STE Curriculum (iSTEM focus: S, T, E, M)</i>	Room 3: T314 Sowparnika Kulandaivel Mary Immaculate College, Limerick <i>Culturally Responsive Engineering Design Process (CREDP) for Science Technology Engineering and Mathematics (STEM) education Equity: A Comparative Literature Review of Ireland and Tamil Nadu, India (iSTEM focus: S, T, E, M)</i> Clodagh Cleary Mary Immaculate College, Limerick <i>Broadening Students' Conceptions of STEM Beyond Subject Boundaries (iSTEM focus: S, E, M)</i> Mairéad Ryan Mary Immaculate College, Limerick <i>STEM for all: Promoting meaningful integrated STEM learning through parental involvement (iSTEM focus: S, E)</i>
3:45pm – 4:00pm	Closing Remarks (Room: T118)			

Day 2: Saturday May 23rd- Practitioner Day

9.00am – 09.30am	Registration				
09.30am - 09.45am	Opening Address (Room: T118) Prof. Aisling Leavy, Head of Department of STEM Education in MIC				
09.45am –10.15am	National Council for Curriculum and Assessment (NCCA) (Room: T118) Overview of the Primary STEM Curriculum				
10.15am - 11.30am	Workshop Session 1 (Select <u>one option</u> below to attend)				
	Room: T213	Room: T214	Room: T301	Room: T314	Room: T315
	Teachers involved in PROTECT Erasmus Project through Clare Education Centre <i>Climate Sustainability Education through the lens of 3 schools on an Erasmus+ Journey (Stages 3 & 4, STEM Areas: S, T, E, M)</i>	Catherine Mangan and Denise Brislane, Oide Digital Technologies Team <i>Digital Innovation with Lego Spike (Stage 3, STEM Areas: S, T, E, M)</i>	James O'Reilly Hollyford NS <i>3D printing and Computer Aided Design (CAD) in the primary classroom (Stages 3 & 4, STEM Areas: T, E, M)</i>	Mairead Ryan, Eleanor Walsh, Maeve Liston <i>Buzzing about STEM in the early years: Leveraging Bee Bots to promote STEM (Stages 1 & 2, STEM Areas: T, M)</i>	Claire Carroll, Aisling Leavy, Mairéad Hourigan, Michelle Fitzpatrick, Breed Murphy, Mairead Ryan, Anne O Dwyer Mary Immaculate College <i>The Great Catapult Challenge: Launching Integrated STEM Learning (Stage: 4, STEM Areas: S, T, E, M)</i>
11.30am- 11.45am	Tea/ Coffee				
11.45am- 1.00pm	Workshop Session 2 (Select <u>one option</u> below to attend)				
	Room: T213	Room: T214	Room: T301	Room: T314	Room: T315
	Mary Kelly University of Galway <i>From Problem to Prototype: Students and Teachers Co-Designing Digital Wellbeing in School (Stage 4, STEM Areas: T, E)</i>	Niamh Kelly <i>Full STEAM Ahead - A practical introduction to integrated STEM across all primary class levels (Stage 3, STEM Areas: S, T, E, M)</i>	Claire Carroll and Ayşegül Liman Kaban Mary Immaculate College <i>Data Detectives and Problem Solvers: Integrated STEM with micro:bit (Stages 3 & 4, STEM Areas: S, T, M)</i>	Orla Waters, Abbie Glynn & James O'Reilly Oide STEM Team <i>Computational thinking; Hands On, Minds On (Stage 3, STEM Areas: T, E, M)</i>	Breed Murphy Mary Immaculate College <i>Once Upon a Time: Picture Books as a Catalyst for STEM Learning (Stages 1 & 2, STEM Areas: S, T, E, M)</i>

1.00pm - 1.45pm	Lunch				
1.45pm – 3.00pm	Workshop Session 3 (Select <u>one option</u> below to attend)				
	Room: T213	Room: T214	Room: T301	Room: T315	
	Maeve Liston and Eleanor Walsh Mary Immaculate College <i>Making STEM Matter: Engineering in Action Through Teacher–Engineer Collaborations for Sustainability</i> (Stages 1-4, STEM Areas: S, E, M)	Karen Marry Scoil Bhríde, Cannistown NS <i>Unlocking Imaginations: Developing Computational Thinking Through Integrated STEM in the Primary Classroom</i> (Stages 1-4, STEM Areas: S, T, E, M)	Michael Mc Namara Mary Immaculate College <i>Exploring the Use of Virtual Reality to Support and Enhance STEM Learning in the Primary Classroom</i> (Stages 3 & 4, STEM Areas: S, T, E, M)	Claire Carroll, Michelle Fitzpatrick, Mairéad Hourigan, Aisling Leavy, Breed Murphy & 4th year MIC maths specialism student teachers <i>Where Maths Meets Minecraft: Game-Based STEM Learning with a Mathematical Core</i> (Stage 3 & 4, STEM Areas: T, M)	
3.00pm - 4.15pm	Workshop Session 4 (Select <u>one option</u> below to attend)				
	Room: T213	Room: T301	Room: T314	Room: T315	
	Shannan Mulrooney Maia Build Lab <i>Child-Led STEM Play with KEVA Planks: Dream, Design, Do</i> (Stages 1-4, STEM Areas: S, E, M)	Keith Young Mary Immaculate College <i>AI Literacy in Primary STEM: Investigating, Questioning and Training AI Systems</i> (Stage 4, STEM Areas: T, E)	Claudia Fraga European International School of Barcelona <i>Sound Sense: Addressing Children’s Alternative Conceptions of Sound through Integrated STEM</i> (Stages 3 & 4, STEM Areas: S, T, E, M)	Chris Reina Makermeet IE <i>Cardboard Creations</i> (Stages 1-4, STEM Areas: S, T, E, M)	
4.15pm-4.30pm	Closing remarks (Room: T118)				