PATT 37 Malta 2019

Conference Programme

	Monday 3 June 2019: All sessions in Lecture Theatre 1			
09:30 - 10:00	Welcome. Registration and coffee.			
10:00 - 10:10	Opening statement by Chair: Dr Sarah Pule'			
10:10 - 10:20	Opening statement by Rector: Professor Alfred Vella			
10:20 - 10:30	Opening statement by PATT representative: Professor Marc de Vries			
10:30 - 10:45	Opening statement by Dean, Faculty of Education: Dr Colin Calleja			
10:45 - 11:00	Opening statement by Minister for Education & Employment: Hon. Evarist Bartolo			
	Session chaired by Marc de Vries			
11:30 - 12:00	Design and Technology towards innovation in Malta. Keith Galea, Silvana Gauci			
12:00 - 12:30	A quantitative analysis of Maltese educational pathways and their impact on the take-up of the engineering profession.			
	Marc Anthony Azzopardi, Brian Zammit, Daniel Micallef, Daniel Buhagiar, Monique Borg			
	Inguanez, Fiona Sammut, Alexia Pace Kiomall, Mario Cachia, Sarah Pulé			
12:30 - 13:00	The objective of technology education: a fresh look at the foundations Antti Pirhonen			
13:00 - 13:30	Make Design Learning Visible: Formative assessment tools for design thinking Remke Klapwijk, Kay Stables			
13:30 - 14:30	Lunch			
	Session Chaired by Piet Ankiewicz			
14:30 - 15:00	The truth is in the boat: A case study of pedagogical content knowledge and technical skill development in pre-service technology education teachers David Gill			
15:00 – 15:30	Technology Students' attitudes toward STEM and Interest in STEM careers: A South African Perspective Francois Van As			
15:30 - 16:00	Pre-Service Teachers' Perceptions of Pedagogical Approaches to STEM Education; Design and Technology Dawne Irving-Bell and David Wooff			
16:00 - 16:15	Coffee Break			
	Session Chaired by Osnat Dagan			
16:15 – 16:45	Individual differences in technology teachers' professional attitude towards technology: An investigation of Chinese high school general technology teachers <i>Meidan Xu, P. John Williams</i>			
16:45 – 17:15	Developing university pedagogy in engineering education Sonja Niiranen, Johanna Naukkarinen Lappeenranta			
17:15 – 17:45	Laying down the "T" and "E" in STEM education: Design as the basis of an integrated STEM philosophy Jonas Hallström, Piet Ankiewicz			
18:00 -	Transport Evening Harbour Cruise at 18:30. Transport directly from University.			

	Tuesday 4 June 2019: Lecture Theatre 1
	Session Chaired by Niall Seery
09:30 - 10:00	Vulnerable Youth and STEAM
	Nika Levikov
10:00 - 10:30	Learning through design and make: producing originally-thought-out products versus
	producing pre-deigned products downloaded from data files
	Vomaranda Joy Botleng, Stephane Brunel, Philippe Girard
10:30 - 11:00	Pre-service technology education teachers' perceptions of experiential learning through
	makerspaces
	David Gill, Gerald Galway
11:00 - 11:30	Models and modelling with digital tools in secondary technology education: Teachers'
	experiences
	Helen Brink, Nina Killbrink
11:30 - 11:45	Coffee Break

Parallel Session 1 – Lecture Theatre 1		Parallel Session 2 – Lecture Theatre 2	
	Session Chaired by Sarah Pule'		Session Chaired by Sonja Niranen
11:45 – 12:15	The influence of Exposure to Design and Technology on Choosing or Dropping the Subject: A case Study in Maltese State secondary Schools Marylin Stellini, Sarah Pulé	11:45 – 12:15	Inducting ITE students in assessment practices through the use of comparative judgement Donal Canty, Jeffrey Buckley, Niall Seery,
12:15 – 12:45	Facets of Creativity Evidenced through a Design and Technology Summer Programme Daniel Zarb, Sarah Pulé	12:15 – 12:45	The perceptions of self-assessment in basic education in craft, design and technology Sari Saarnilahti, Eila Lindfors
12:45 – 13:15	Exploring the nature of young learners' convergent thinking during designing <i>Alice Schut, Nicolaas Blom</i>	12:45 – 13:15	First, Last, ElsewherePositioning ACJ in the Design Learning Experience Scott Bartholomew, Liwei Zhang, Garcia Bravo, Greg J. Strimel
13:15 – 13:45	Formative Evaluation of divergent Thinking in Primary Design Education Remke Klapwijk, Niels van den Burg	13:15 – 13:45	Analysing 'values' in collaborative development of D&T education units <i>Ritesh Khunyakar</i>
13:45 - 14:45	Lunch	13:45 - 14:45	Lunch
15:00 -	Pre-historic temples. Transport leaves the Hotel will be provided.	from University at	l 15:00. Transport back to Waterfront

	Wednesday 5 June 2019: Lecture Theatre 1
	Session Chaired by Jonas Hallström
09:30 - 10:00	How teachers value skills in Technology teaching in Swedish compulsory school -
	interpreted traditions Charlotta Nordlof, Susanne Engstrom
10:00 - 10:30	Study of correlations between treatments of the didactics incidents and interactive decisions. Case of a session of technological teaching in a Tunisian college <i>Nour ElHouda Essefi</i>
10:30 - 11:00	Connecting the past and the present to the future: Hangarau, indigenous Maori technological practice in New Zealand <i>Ruth Lemon, Kerry Lee, Hemi Dale</i>
11:00 - 11:30	Technology Education in a Sami School Cecilia Axell
11:30 – 11:45	Coffee Break

Parallel Session	Parallel Session 1 – Lecture Theatre 1		Parallel Session 2 – Lecture Theatre 2	
11:45 – 12:15	Session Chaired by Jeffrey Buckley Another way of teaching programming for technology education Lars Bjorklund	11.45 – 12.15	Session Chaired by Ronan Dunbar Using CAVTA (Conversation Analysis and Variation Theory Analysis) in a Learning Study on Welding Nina Kilbrink, Stig-Borje Asplund	
12:15 – 12:45	Design & Technology and Computer Science in the CAMAU Project: The Genesis of Learning Progression in the New Curriculum for Wales David Morrison-Love, Peter Donaldson, Janine Barnes	12.15 – 12.45	Developing a methodological approach to measure cognitive load during complex problem solving - working to understand the role of spatial abililty in problem solving <i>Clodaugh Reid, Ronan Dunbar,</i> <i>Jeffrey Buckley</i>	
12:45 – 13:15	Programming as a new content in Swedish preschool: What is it and how is it done? Cecilia Axell, Karin Stolpe	12.45 – 13.15	Scale Development for Measuring iDesign Content Connections in Pre-Service STEM teachers Elizabeth Deuermeyer, Michael de Miranda	
13:15 – 13:45	The Body within the Loop - Identifying Primary Metaphors in Computer Programming Educational Resources Andreas Larsson	13.15 – 13.45	Fashion Design Education: The effects of users as the design core and inspirational source Neshane Harvey, Piet Ankiewicz, Francois Van As	
13:45 – 14:15	Teachers' attitudes towards teaching programming in Swedish technology education Eva Hartell, Andrew Doyle, Lena Gumaelius	13.45 – 14.15	Re-designing Design and Technology Education: A living literature review of stakeholder perspectives Dawne Irving-Bell, David Wooff, Matt McLain	
14:45 – 15:45	Lunch	14.45 – 15.45	Lunch	
16:00 -	Transport directly from University	to Mdina. Transpo	 ort from Mdina to Waterfront Hotel	

	Thursday 6 June 2019: Lecture Theatre 1
	Session Chaired by Cecilia Axell
09:30 - 10:00	Integrative STEM education - A new M.ED. Program: Development Objectives and
	Challenges
	Osnat Dagan
10:00 - 10:30	A comparative study of the content of two documents: The Design and Technology
	National Curriculum in England and New Zealand's Technology curriculum.
10:30 - 11:00	Stephanie Atkinson Curriculum Development for Technology Teacher Education - Integrating Pedagogy,
10.50 - 11.00	Epistemology and Capability
	Ronan Dunbar, Jeffrey Buckley, Niall Seery
11:00 - 11:30	Existential risk in technology education
	Markus Stoor
11:30 - 11:45	Coffee Break
	Session Chaired by Lars Bjorklund
11:45 – 12:15	Models and modelling in technology education textbooks
	Per Norstrom
12:15 – 12:45	The effect of Spatial Ability on Retention in Engineering / Technology Education in Post-
	Primary Education
12.45 42.45	Tomas Hyland, Jeffrey Buckley, Niall Seery, Seamus Gordon
12:45 – 13:15	Developing a questionnaire to measure students' conceptions of the nature of
	technology Katrin Vaino, Toomas Vaino, Miia Rannikmae
13:15 - 14:00	Lunch
	Session Chaired by Stephanie Atkinson
14:00 - 14:30	Investigating perceptions of intelligence as an approach to understanding female
	representation in technology and engineering education
	Jeffrey Buckley, Tomas Hyland, Niall Seery, Lena Gumaelius, Arnold Pears
14:30 - 15:00	What are they doing? Tool use and self-image of girls aged 9 to 12 when engaging in
	technology education
45.00 45.20	Ulrika Sultan, Cecilia Axell, Jonas Hallström
15:00 - 15:30	Students' Goal Orientation during an Educational Engineering Design Process Eila Lindfors, Siiri, Knuuttila
15:30 - 16:00	
15.50 - 10.00	
16:00 - 16:30	Bridge between industry and education
10.00 10.50	Jeanette Axisa
16:30 - 17:00	Plenary Session. <i>Moderator:</i> John P. Williams
	Developing a Knowledge Economy through Technology and Engineering Education:
	What does it entail? How can it be done? What is the role given to Design skills?
17:00 - 17:30	Closing address by Sarah Pulé and Marc de Vries
17:30 - 18:00	Refreshments
18:00	Transport to Waterfront Hotel

17 May 2019