



## Swan Delta Conference 2019 Full Programme

**Monday 25 November 2019  
First Day**

<b>8:30am Abrolhos Room</b> Registration Desk Open Come and chat with fellow delegates while enjoying a morning coffee before the talks			
<b>9:00am Island Suite</b> Opening of Conference			
<b>9:30am</b> Welcome to Country			
<b>9:45am Island Suite</b> Plenary Speaker  <b>Tanya Evans</b> Who Is Tasked with Modernisation of Mathematics Education? Research Mathematicians and Mathematics Education Researchers Bridging the Disciplinary Gap			
<b>10:45am – 11:10 Abrolhos Room</b> Morning Tea			
	<b>Carnac Room</b> Chair: Anita Campbell	<b>Garden Room</b> Chair: Simon James	<b>Rottneest Room</b> Chair: Michael Jennings
<b>11:15 – 11:35am</b>	<b>Bridgette Yani</b> Academic Maturity of Students in an Extended Programme in Mathematics	<b>Sepideh Stewart</b> Leading Students Towards the Formal World of Mathematical Thinking: A Mathematician's Reflections on Teaching Eigentheory	<b>Don Shearman</b> Analysis Using Natural Language Processing of Feedback Data from Two Mathematics Support Centres
<b>11:40 – 12:00pm</b>	<b>Emily Cilli-Turner</b> Tertiary Students' Changing Views on Mathematical Creativity	<b>Juan Ponce Campuzano</b> The Use of Phase Portraits to Visualise and Investigate Isolated Singular Points of Complex Functions	<b>David Hartley</b> Reflecting on The Role Of Centralised Mathematics Support
<b>12:05 – 12:25pm</b>	<b>Ching-Ching Yang</b> Design-Based Instruction Integrating Computational Thinking for University Statistics - From Probability to Errors in Hypothesis Testing	<b>Paul Hernandez-Martinez</b> Mathematics Lecturers' Views on Their Mathematical Modelling Practices	<b>Jeff Waldock</b> The Potential of Recreational Mathematics to Support the Development of Mathematical Learning
<b>12:30 – 1:30pm Atrium Garden Restaurant</b> Lunch			
	<b>Carnac Room</b> Chair: Phil Kane	<b>Garden Room</b> Chair: Anthony Morphet	<b>Rottneest Room</b> Chair: Jeff Nijse
<b>1:35 – 1:55pm</b>	<b>Bathi Kasturiarachi</b> Tight Connection to Success: The College Credit Plus Program	<b>Ant Edwards</b> Student Polling – It's the Taking Part That Counts	<b>Renu Choudhary</b> Reflection, Introspection, & Transformation
<b>2:00 – 2:20pm</b>	<b>Catherine Hassell Sweatman</b> Reflections on the Value of Teaching Mathematics to Art and Design Students	<b>Carole Birrell</b> A Project for Teaching Sample Surveys Using a Virtual Population	<b>Zanele Ngcobo</b> Transformation of Pre-Service Mathematics Teacher Specialised Content Knowledge Through Error Analysis
<b>2:25 – 2:45pm</b>	<b>Rachel Passmore</b> Capstone Courses - What, Why and How?	<b>Antony Dekkers</b> Changing Attitudes – How Academics Utilise Tablets in Mathematics	<b>Anthony Cronin</b> Supporting Lecturers to Monitor Their Students' Learning and Develop Their Practice Through Engaging with Mathematics Support Centre Feedback
<b>2:50 – 3:15pm Abrolhos Room</b> Afternoon Tea.			
<b>3:20pm Island Suite</b> Plenary Speaker  <b>Chris Sangwin</b> Playfulness and a Mathematics Education for the Twenty First Century			
<b>4:30pm Island Suite</b> Catch up time at the end of the first day with Maths Crafts with Julia Collins and Katherine Seaton.			



## Swan Delta Conference 2019 Full Programme

Tuesday 26 November 2019  
Conference Dinner

<b>8:30am Abrolhos Room</b> Registration Desk Open Come and chat with fellow delegates while enjoying a morning coffee before the talks			
<b>8:45am Island Suite</b> Conference housekeeping.			
<b>9:00am Island Suite</b> Plenary Speaker  <b>Harry Wiggins</b> The Catch-22 of Teaching			
<b>10:05am Island Suite</b> Workshop:  <b>Jessica Libertini</b> Designing Math That Matters: Leveraging Interdisciplinary Partnerships on Your Campus to Motivate Learning			
<b>10:50 – 11:10am Abrolhos Room</b> Morning Tea			
	<b>Carnac Room</b> Chair: Renu Choudary	<b>Garden Room</b> Chair: Emily Cilli-Turner	<b>Rottnest Room</b> Chair: Ant Edwards
<b>11:15 – 11:35am</b>	<b>Igor Kontorovich</b> Why do Students Not Check Their Solutions to Mathematical Problems? A Field-based Hypothesis on Epistemological Status	<b>Jeff Waldo</b> Custom Software Tools for Active Learning in Higher Education Mathematics	<b>Poh Hillock</b> A Support Learning Programme for First-year Mathematics
<b>11:40 – 12:00pm</b>	<b>Elsabe Weyer</b> The Influence of Student Engagement and Self-Regulation on the Performance of First-Year Natural Science Mathematics Students	<b>Jeff Nijse</b> Coding Tutorials: Using Jupyter and Scratch to Teach Concepts in Blockchain	<b>Anita Campbell</b> Design-based Research principles for Successful Peer Tutoring on Social Media
<b>12:05 – 12:25pm</b>	<b>Deb King</b> Making the Grade: Do Maths Marks Matter for Women in STEM?	<b>Owen Jepps</b> Group-Work Video Presentations as an Effective Linear Algebra Assessment Task	<b>Phil Kane</b> Support for Students with Mathematics Learning Disabilities (MLDs) on Bridging or Foundation Programmes at New Zealand Universities
<b>12:30 – 1:30pm Atrium Garden Restaurant</b> Lunch			
	<b>Carnac Room</b> Chair: Greg Oates	<b>Garden Room</b> Chair: Rachel Passmore	<b>Rottnest Room</b> Chair: Cami Sawyer
<b>1:35 – 1:55pm</b>	<b>Kaitlin Riegel</b> Student-Lecturer Partnerships in Undergraduate Mathematics Question Design	<b>Christine Mangelsdorf</b> Developing Skills and Enhancing Feedback Through Online Assessment with Webwork	<b>Simon James</b> Anonymous Peer Feedback for Problem-Solving Portfolios
<b>2:00 – 2:20pm</b>	<b>Tracy Craig</b> The Twente Educational Model in Theory and Practice: Two Modules as Exemplars	<b>Karsten Schmidt</b> Teaching Decision Theory in the PC Lab	<b>Leanne Rylands</b> Workshop Support for First-Year Mathematics and Statistics
<b>2:25 – 2:45pm</b>	<b>Nazim Khan</b> Who Uses Online Material?	<b>Kevin McLeod</b> Project-Based Learning in an Introductory Algebra Class at the University of Wisconsin-Milwaukee	<b>Anthony Morphet</b> Modelling Mathematics Support Uptake with Rumour Models



## Swan Delta Conference 2019 Full Programme

**Tuesday 26 November 2019**  
**Conference Dinner**  
(continued)

<b>2:50 – 3:15pm Abrolhos Room</b> Afternoon Tea.			
	<b>Carnac Room</b> Chair: Harry Wiggins	<b>Garden Room</b> Chair: Johann Engelbrecht	<b>Rottnest Room</b> Chair: Barbara Miller-Reilly
<b>3:20 – 3:40pm</b>	<b>Trudie Benadé</b> The Relevance of a Mathematics Course for Computer Science Students	<b>Kerri Spooner</b> How Do We Teach Mathematical Modelling?	<b>Katherine Seaton</b> Laying Groundwork for an Understanding of Academic Integrity in Mathematics Tasks
<b>3:45 – 4:05pm</b>	<b>Maureen Edwards</b> Aspects of a Transitional Subject for First Year Mathematics Students: A Reflection	<b>David Easdown</b> Reaching Out: Introduction to Calculus	<b>Diana White</b> Using Primary Source Projects to Teach Undergraduate Mathematics Content: Analysis of Instructor Implementations and Perceptions
<b>4:10 – 4:30pm</b>	<b>Deon Solomons &amp; Honjiswa Conana</b> Reflections of Change: Addressing Challenges in the Transition to Second Year Mathematics	<b>Robyn Reaburn</b> Crossing the Liminal Space: Students' Understanding of Confidence Intervals	<b>Anne D'Arcy-Warmington</b> Even in This Digital World, Simple Concrete Manipulatives May Be Used to Cement Mathematical and Statistical Understanding
<p><b>4:30pm Abrolhos Room</b> Catch up time at the end of the second day.</p> <p><b>From 6:00pm for a 7:00pm start, until late</b> <b>Conference Dinner</b> Fremantle Sailing Club 151 Marine Terrace, Fremantle</p> <p>There will be activities during the dinner.</p>			

## Wednesday 27 November 2019 Excursion Day

<p><b>Excursion Day</b></p> <p>There is a tradition of having an excursion day in the middle of the Delta Conference, to give participants the opportunity to explore the local area and form stronger networks.</p> <p>For Swan Delta, this will occur on Wednesday 27 November.</p> <p>Note that the excursion cost is not included in the conference registration and will be payable separately to the tour operator. A selection of possible excursions is available on the website and a link is provided to help facilitate excursion bookings. Please use the link before the start of the conference or organise your trip at the Registration Desk on the Sunday or Monday.</p>
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## Swan Delta Conference 2019 Full Programme

**Thursday 28 November 2019**  
**Teachers Day**

*In addition to Swan Delta delegates we welcome Teachers Day delegates from Secondary Schools, Curtin College and Further Education Colleges. On Teachers Day we particularly encourage participation from colleagues engaged with secondary school and with the transition between school and university.*

<b>8:30am Abrolhos Room</b> Registration Desk Open Come and chat with fellow delegates while enjoying a morning coffee before the talks			
<b>8:45am Island Suite</b> Conference housekeeping.			
<b>9:00am Island Suite</b> Plenary Speaker  <b>Janine Sprakel</b> Why CHOOSEMATHS?			
<b>10:00am Island Suite</b> Speed Networking			
<b>10:30am – 11:10 Abrolhos Room</b> Morning Tea			
	<b>Carnac Room</b> Chair: Tracy Craig	<b>Garden Room</b> Chair: Paul Hernandez Martinez	<b>Rottnest Room</b> Chair: Kevin McLeod
<b>11:15 – 11:35am</b>	<b>Carolyn Kennett</b> Examining Pre-Service Teachers' Mathematical Confidence	<b>John Lamerand</b> Ratios, Geometry and Health Messages	<b>Margaret Marshman</b> Making Mathematics Teachers: The Beliefs About Mathematics and Mathematics Teaching and Learning Held by Mathematics Teacher Educators and Pre-Service Teachers
<b>11:40 – 12:00pm</b>	<b>Jyoti Jhagroo</b> Preservice Primary Mathematics Teachers' Professional Learning Within a University-School Partnership	<b>Michael Jennings</b> Teacher and Lecturer Perspectives on Secondary School Students' Understanding of the Limit Definition of the Derivative	<b>Jane Kirkham</b> Are Advanced Mathematics Courses Valued by Western Australian Male and Female Senior Secondary School Students?
<b>12:05 – 12:50pm</b>	Workshop Chair: Cristina Varsavsky <b>Cami Sawyer</b> Engaging Mathematicians in Addressing the Needs of the 21st Century Learner	Workshop Chair: Jeff Waldock <b>Michael Rutkay</b> Algebra Using Post-It Notes	Workshop Chair: Tanya Evans <b>Mary Jane O'Callaghan</b> Statistics and Origami
<b>12:50 – 1:55pm Atrium Garden Restaurant</b> Lunch			
	<b>Carnac Room</b> Chair: David Rodda	<b>Garden Room</b> Chair: Chris Sangwin	<b>Rottnest Room</b> Chair: Sepideh Stewart
<b>2:00 – 2:20pm</b>	<b>Norm Hoffman</b> Randomness: Its Importance in Statistical Inference and How To Teach Students About It	<b>Bruce May</b> Mathematical Text Comprehension: The Case of a Cohort of Pre-Service Mathematics Teachers	Workshop <b>Helen Middleton</b> Are You Ready to Play the Science Game? Melding Maths Skills for Transition into University Science
<b>2:25 – 2:45pm</b>	<b>Harry Wiggins</b> Five Ways Complex Numbers Give Insight Into Real Numbers	<b>Ng Wee Leng</b> Pre-Class Tasks Used in a Flipped Linear Algebra Course for Student Teachers	
<b>2:45 – 3:25pm Abrolhos Room</b> Posters Session Extended Afternoon Tea.			
<b>3:30pm Island Suite</b> Plenary Speaker  <b>Chris Matthews</b> Teaching Culture = Deep Learning			
<b>4:30pm Abrolhos Room</b> Catch up time at the end of the third day.			



# Swan Delta Conference 2019 Full Programme

Friday 28 November 2019  
Final Day

<b>8:30am Abrolhos Room</b> Come and chat with fellow delegates while enjoying a morning coffee before the talks.
<b>8:45am Island Suite</b> Conference housekeeping.
<b>9:00am Island Suite</b> Plenary Speaker <b>Cristina Varsavsky</b> The History of Delta: 22 Years and Counting
<b>10:00am Island Suite</b> Delta Brainstorm
<b>10:30am – 11:10am Abrolhos Room</b> Morning Tea
<b>11:15am – 11:30 Island Suite</b> Next Delta's presentation by Phil Kane and Rachel Passmore
<b>11:30am Island Suite</b> Closing Ceremony

## FLOOR PLAN



**Swan Delta Conference**  
Esplanade Hotel, Fremantle  
24 - 29 November, 2019

