Thursday 12 February (morning session)

8:40 – 9:40	**Plenary talk : Mary Silber** Resilience in drylands: landscape-scale, self-organized vegetation patterns			*Chair : Hinke Osinga*	
	Room 1 and 2 *Chair :* *Alys Clark*	**Room 3** *Chair:* *Edward Bissaker*	**Room 4** *Chair:* *Simon Clarke*	**Room 5** *Chair :* *Melanie Roberts*	**Room 6** *Chair :* *Pantea Pooladvand*
9:40 – 10:00	**Thomas Williams** Modelling the growing outer membrane of Gram-negative bacteria	**Patrick Grant** Timber in Trouble: Predicting Failure in Engineered Wood Products	**Zachary James Wegert** Next-generation computational design with unfitted finite elements and automatic shape differentiation	**Winston Sweatman** Birds, Fish and Finding Nice Shapes	**Roslyn Hickson** Estimation of *Aedes albopictus* abundance based on a dengue outbreak in Australia
10:00 – 10:20	**Stuart Johnston** Quantifying biological heterogeneity in nano-engineered particle–cell interaction experiments	**Edoardo Fabbrini** A Variational Formulation for Plane-Strain Elasticity with Topological Defects	**Paul Charles Leopardi** Rigorous numerical analysis in the age of vibe coding: case studies	**Elise Mills** Thermal performance curve models calibrated to ecological data using Sequential Monte Carlo sampling: an application to Antarctic moss photosynthesis	**Richard Creswell** Inferring duration of seropositivity from infection prevalence and seroprevalence survey data
10:20 – 10:40	**Adrianne Jenner** In silico trial of a cancer treatment combing a virus and an immune "magnet"	**Daniel J Netherwood** Towards a model for growth-induced wrinkling in thin elastic sheets	**Judith Bunder** Efficient 'equation-free' simulations of elastic beams	**Tomoharu Suda** From time series to dynamics: a categorical perspective	**Tiffany Leung** Estimating the impact of a school-based live-attenuated influenza vaccination program in Australia: a modelling study
10:40 – 11:00	**Ryan Murphy** A coarse-grained mathematical model for colorectal crypt dynamics	**Steve Taylor** MINZ, protein power drinks and traffic flow	**Kazuki Koga** Weak comparisons between compact surfaces	**Gary Froyland** Optimising climate sensitivity: an El-Nino Southern Oscillation case study	**Alexandra Hogan** Mathematical modelling of endemic SARS-CoV-2 transmission and implications for vaccination strategies
11:00 – 11:30	**Morning tea - Grand Ballroom**				
11:30 – 12:30	**Plenary talk : Boris Baeumer** Randomising time: A Foray into a Non-Markovian World			*Chair : Yvonne Stokes*	
12:30 – 13:00	**Closing ceremony**				
13:00 – 14:00	**Lunch - Grand Ballroom**				