ASTIN, AFIR/ERM and IACA Colloquia
Innovation & Invention
23-27 August 2015 | Amora Hotel Jamison Sydney

Actuaries Institute

Please note Program is subject to change

	Length hrs	Sunday 23 August 2015				Room Allocation
12.00	2 hrs	Registration Opens				
12.00	1 hr	LUNCH				FOYER
13.00	3 hrs	ASTIN Committee Meeting				Whiteley 1
14.30	15 mins	Afternoon Tea				FOYER
15.30	30 mins	Bulletin Update			Andrew Cairns	
16.00		Committee Meetings conclude				
16.30		Bus Departs hotel				
17.00		**Welcome Cocktail Party - Cruise Sydney Harbour**				
19.00		**Dress - Smart Casual**				
		Monday 24 August 2015 - Day One				
7.00		Registration Opens			**Facilitator**	
8.30	10 mins	Welcome		Fred Rowley - IAA President	Dave Finnis	Whiteley 1
8.40	10 mins	Facilitator Comments				
8.50	**70 mins**	**Plenary 1**	**Plenary 1**	**Speakers**		
	50 mins		Taking from Another Angle the Computation of the One Year Capital and the Risk Margin out of the P&C Triangles	Michel Dacorogna		
	20 mins		Q+A			
10.00	**40 mins**		**MORNING TEA**			**FOYER**
10.40	**5 mins**	**Session change over**				
10.45	**60 mins**	**Concurrent 1**	Topic	**Speakers**	**Chair**	
		1a	**Statistics & Credibility**		Eric Dal Moro	Whiteley 1
			An Asymptotic Test for the Conditional Value-at-Risk***	Péter Vékás		
			Generalised Linear Models in Compound Risk Model with Dependent Structures*	Jae Youn Ahn		
			A Discussion on Credibility and Penalised Regression, with Implications for Actuarial Work**	Hugh Miller		
		1b	**Portfolio Optimisation**		Daniel Dufresne	Whiteley 2
			On Integrated Chance Constraints in ALM for Pension Funds**	Youssouf Toukourou		
			Evaluating Investments in Renewable Energy Under Policy Risks*	Nikolai Vogl		
			Empirical Study of Multi-objective Optimisation in the Multi-currency Hull-White Two Factor Model***	Yujiro Otsuka		
11.45	**5 mins**	**CHANGE OVER**				
11.50	**60 mins**	**Concurrent 2**	Topic			
		2a	**Reserving**		Dimitri Semenovich	Whiteley 1
			Implementing the Individual Claims Reserving method, a new approach of non-life reserving**	Pierre Miehe, Jean-Baptiste Chalnot		
			Existence and Uniqueness of Chain Ladder Solutions***	Greg Taylor		
		2b	**Product Guarantees**		Gautam Kakar	Whiteley 2
			Participating Life Insurance Products with Alternative Guarantees: Reconciling Policyholders' and Insurers' Interests**	Andreas Reuss, Jochen Wieland		
			Guarantee Valuation in Unfunded Pension Systems*	Jennifer Alonso-Garcia		
12.50	**60 mins**		**LUNCH**			**GALLERY RESTAURANT**

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13.50	60 mins	Concurrent 3	Topic	Speakers	Chair	
		3a	**ERM**		Brent Walker	Whiteley 1
			Risks and Risk Management of Renewable Energy Projects: The Case of Onshore and Offshore Wind Parks*	Thomas Kosub		
			Modeling Operational Risk Incorporating Reputation Risk: An Integrated Analysis for Financial Firms*	Christian Eckert		
		3b	**Longevity Risk**		Hugh Miller	Whiteley 2
			Managing Systematic Mortality Risk in Life Annuities: An Application of Longevity Derivatives**	Man Chung Fung, Katja Ignatieva		
			Hedging and Immunisation of Longevity Risk***	Changyu Liu		
14.50	**5 mins**	**CHANGE OVER**				
14.55	60 mins	Concurrent 4				
		4a	**Reserving**		Greg Taylor	Whiteley 1
			Probability of Sufficiency of Reserve Risk Margins under Solvency II Cost of Capital Approach: Practical Approximation Formulae**	Yuriy Krvavych, Eric Dal Moro		
			Binary Events Loading for Solvency II Technical Provisions: Practical Approximation Formulae***	Yuriy Krvavych		
		4b	**Options and Derivatives**		Mark Griffiths	Whiteley 2
			Pricing Asian options: Convergence of Gram-Charlier series*	Daniel Dufresne		
			Valuation of Guaranteed Minimum Maturity Benefits in variable annuities with surrender options***	Jonathan Ziveyi		
		4c	**Pricing and Underwriting**		Anthony Asher	Lindsay
			Behavioral Biases in Underwriting: Implications for Insurers*	Jiten Voralia		
			Financial Consequences of temperature changes on mortality: International Evidence**	Colin O'Hare, Malgorzata Seklecka, Athanasios A. Pantelous		
			Annual Mileage and BMS in Motor Pricing for Private Cars in Germany	Axel Wolfstein		
15.55	**30 mins**	**AFTERNOON TEA**				**FOYER**
16.25	60 mins	Concurrent 5	Topic	Speakers	Chair	
		5a	**Statistics + Credibility**		Dimitri Semenovich	Whiteley 1
			Why High Dimensional Modeling in Actuarial Science?***	Simon Lee		
			q-Credibility*	Olivier Le Courtois		
		5b	**Risk Environment**		Sarah Johnson	Whiteley 2
			Environmental, Social And Economic Sustainability: Implications For Actuarial Science**	Taryn Leigh Reddy		
			Virtue And Risk Culture In Finance**	Anthony Asher, Tracy Wilcox		
17.25			End of Day 1 Sessions			
FREE EVENING						

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		Tuesday 25 August 2015 - Day Two				
8.00		Registration Opens				
8.30	10 mins	Facilitator Comments			Dave Finnis	Whiteley 1
8.40	**60 mins**	**Plenary 2**	**Plenary 2**	**Speakers**		
	45 mins		National Disability Insurance Scheme (NDIS)	Richard Madden		
	15 mins		Q+A			
9.40	**30mins**	**MORNING TEA**				**FOYER**
10.10	**60 mins**	**Concurrent 6**				
		6a	**Reinsurance and Annuities**		Frank Cuypers	Whiteley 1
			Five Things Insurers Can Do About Climate Change*	Sharanjit Paddam		
			Political Risk Reinsurance Pricing - A Methodology Proposal	Eric Dal Moro		
		6b	**Risk Management**		Dave Finnis	Whiteley 2
			Optimising Business in Low Yield/High Volatility World Through Enhanced Risk Assessment and Capital Management**	Paul Sandhu		
			Inside the Solvency 2 Black Box: Net Asset Values and Solvency Capital Requirements with a Least-Squares Monte-Carlo Approach**	Olivier Le Courtois		
11.10	**5 mins**	**CHANGE OVER**				
11.15	**60 mins**	**Concurrent 7**				
		7a	**ERM and Capital**		Sharanjit Paddam	Whiteley 1
			Management Risk**	Frank Cuypers		
			Multivariate stop loss mixed Erlang risk: Aggregation, Capital allocation and default risk**	Gildas Ratovomirija		
		7b	**Broader Risks**		Chris Murphy	Whiteley 2
			Regulation Risk: Is There as Danger in Reducing the Volatility**	Christian Walter		
			Components and Challenges of Integrated Cyber Risk Management*	Thomas Kosub		
12.15	**60 mins**	**LUNCH**				**GALLERY RESTAURANT**
1.15						
		End of Day 2 Sessions				
		Optional Activities				
		FREE EVENING				

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		Wednesday 26 August 2015 - Day Three				
8.00		Registration Opens				
8.30	10 mins	Facilitator Comments		Dave Finnis		
8.40	**60 mins**	**Plenary 3**	**Plenary 3**	**Speakers**		Whiteley 1
	45 mins		Group Life and TPD Crisis	Pauline Blight-Johnston		
	15 mins		Q+A			
9.40	**5 mins**	**CHANGE OVER**				
9.45	**60 mins**	**Concurrent 8**				
		8a	**Risk Measures**		Hazel Bateman	Whiteley 1
			Layer Dependence as a Local Dependence Measure***	Weihao Choo		
			Sequential Analysis of Scenario Based Risk Measures***	Dimitri Semenovich		
		8b	**Quantifying Risk Exposures**		Colin O'hare	Whiteley 2
			Approaches Used to Quantify Forward Looking Risk Exposures for Variable Annuities***	Mark Griffiths, Maziar Nikpour		
			Australian Cyber Claims: Live and Kicking	Eric Lowenstein		
10.45	**30mins**		**MORNING TEA**			**FOYER**
11.15	**60 mins**	**Concurrent 9**				
		9a	**Economics**		Taryn Reddy	Whiteley 1
			From Data to Decisions – Using Actuarial Science in the Fight Against Poverty**	Barry Maher		
			Risk Quantification and Optimization of Counterparty Risks Caused by Reinsurance for Variable Annuities**	Takayuki Ichikawa		
			Interest Rates and Inflation in Property/Casualty Insurance**	Prof. Dr. Michael Radtke		
		9b	**Mortality and Longevity Risk**		Zinoviy Landsman	Whiteley 2
			Modelling Lifetime Dependence for Older Ages using a Multivariate Pareto Distribution*	Daniel H. Alai, Zinoviy Landsman		
			Mortality Forecast: Global or Local?**	Han Li, Colin O'Hare		
			Regional Differences in Life Expectancy in Mainland China*	Kevin Liu		
12.15	**60 mins**		**LUNCH**			**GALLERY RESTAURANT**
13.15	**60 mins**	**Concurrent 10**	**Topic**	**Speakers**	**Chair**	
		10a	**Statistics**		Frank Cuypers	Whiteley 1
			The Data Analytics Revolution: A Guide from the ASTIN Working Party on Big Data	Raymond Wilson		
			Delta Boosting Machine and its Application in Actuarial Modeling***	Simon Lee		
		10b	**Economic Models and Risks**		Michael Sherris	Whiteley 2
			An Investigation into South African General Equity Unit Trust (mutual fund) Performance During Different Economic Periods**	Dino Elias Bertolis, Mark Hayes		
			Cancelled Session			
		10c	**IACA**		Brent Walker	Lindsay
			Demographics, Development, and Disasters: The Role of Insurance in Planning for the Future*	Rade Musulin		

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14.15	5 mins	CHANGE OVER				
14.20	60 mins	Concurrent 11				
		11a	**Pricing**		Gautam Kakar	Whiteley 1
			Product Pricing and Solvency Capital Requirements for Long-Term Care Insurance*	Adam Wenqiang Shao		
			How Do Lab Data Complement Field Data? An Experimental Analysis in the Context of Car Insurance**	Rami Bou Nader		
		11b	The Bob Alting von Geusau Memorial Prize - On the Calculation of the Solvency Capital Requirement Based on Nested Simulations	Daniel Bauer, Andreas Reuss	Michael Sherris	Whiteley 2
		11c	**IACA**		Rade Musulin	Lindsay
			Data Problems and Solutions**	Margaret Tiller Sherwood		
15.20	30 mins	AFTERNOON TEA				FOYER
15.50	90 mins	General Assemblies + Prizes	**Topic**	**Speakers**		
			ASTIN	Eric Dal Moro		Whiteley 1
			AFIR/ERM	Eric Thorlacius		Whitelely 2
			IACA	Margaret Tiller Sherwood		Lindsay
17.20		End of Day 3 Sessions				
18.30		Gala Dinner Bus Depart				
19.00		Gala Dinner				

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			Thursday 27 August 2015 - Day Four			
8.00		Registration Opens				
8.30	10 mins	Facilitator Comments		Dave Finnis	Dave Finnis	Whiteley 1
8.40	**60 mins**	**Plenary 4**	**Plenary 4**	**Speakers**		
	45 mins		Uncertainty and Risk Communication	Frank Ashe		
	15 mins		Q+A			
	10mins		Official Announcements	Fred Rowley - IAA President		
9.50am	**5 mins**	**CHANGE OVER**				
9.55	**60 mins**	**Concurrent 12**				
		12a	**Reserving**		Gildas Ratovomirija	Whiteley 1
			Modeling Dependencies in Claims Reserving with GEE**	Michal Pesta		
			Conditional Least Squares and Copulae in Claims Reserving for a Single Line of Business**	Michal Pesta		
		12b	**Portfolio Optimization**		Eduardo Melinsky	Whiteley 2
			General Approach to the Optimal Portfolio Risk Management**	Zinoviy Landsman, Udi Makov		
			Copula Simulation in Portfolio Allocation Decisions***	Gyöngyi Bugár		
		12c	**IACA**		Fred Rowley	Lindsay
			Regulatory Trends in the Asia Pacific Region – Opportunities for the Actuarial Profession*	Rade Musulin		
10.55	**30mins**		**MORNING TEA**			**FOYER**
11.25	**60 mins**	**Concurrent 13**				
		13a	**Health**		Brent Walker	Whiteley 1
			Insurance principles for monitoring and managing the National Disability Insurance Scheme*	Sarah Johnson		
			On the Transferability of Reserves in Lifelong Health Insurance Contracts**	Els Godecharle		
			Statistical Bayesian Inference and Prediction for the 2014 West African Ebola Outbreak Modeled as a Galton-Watson Branching Process***	Guillaume Ominetti, Benjamin Schannes		
		13b	**Longevity Risk**		Daniel Alai	Whiteley 2
			Home Equity Release: An Alternative Product and its Pricing***	Douglas Andrews		
			A Cohort-Based Value Index for Longevity Risk Management***	Yang Chang		
			The Application of Affine Processes in Multi-cohort Mortality***	Yajing Xu		
		13c	**IACA**		Margaret Tiller Sherwood	Lindsay
			Shareholder Reporting in Life Insurance Companies**	Gautam Kakar		
12.25			**End of Day 4 Sessions**			
12.25	**60 mins**		**LUNCH**			**GALLERY RESTAURANT**

Concurrent Session Grading: No*= No prior knowledge required ** General industry knowledge assumed *** Technical and/or specific industry knowledge assumed