PROGRAM

Program is subject to change. We encourage you to download the Symposium App for updated changes.

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1600 - 1730 Exhibitor move in

1500 - 1800 Registration opens
Location: Level 6, Business Centre

1500 - 1730 ANZFSS Council Meeting

Room: Seidler Boardroom, Business Centre, Hilton Brisbane

1730 - 1930 **WELCOME FUNCTION**Location: ANZFSS Exhibition
Level 5, Hilton Brisbane

SPONSORED BY

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MONDAY 12 SEPTEMBER

Maria van der Salm

0730 - 1730	Registration desk ope	ens							
0845 - 1000	OPENING SESSION								
Chair:	Andrew Stanley								
Room:	Grand Ballroom								
0845 - 0850	ANZFSS Welcome James Curran, ANZFS	SS President							
0850 - 0855	Presenting Partner We Peter Waterman, The						Thermo Fisher		
0855 - 0905		Organising Committee W ntific Chair, ANZFSS 202							
0905 - 0945	The Difference We Ma	ike rcombe, facilitated by D	onna MacGregor, Chair	ANZFSS 2022					
0945 - 1015 Rooms:	Morning Tea Queens Ballroom, Red	dlands, Moreton, Lockyer	& Foyer						
1020 - 1200	PLENARY SESSION 1								
Chair:	Donna MacGregor								
Room:	Grand Ballroom								
1020 - 1030	Welcome to Country								
1030 - 1115	_	Preventing Future Crimes By Looking Backwards - Why Cold Cases Matter? Dr Angela Williamson							
1115 - 1200	Human Decompositio Prof Shari Forbes	Human Decomposition Facilities - Creating Future Possibilities For Forensic Science Prof Shari Forbes Health Pathology							
1200 - 1300 Rooms:	Lunch Queens Ballroom, Rec	dlands, Moreton, Lockyer	· & Foyer						
1300 - 1450	CONCURRENT SESSION	ONS							
	1.1A: Biological criminalistics	1.1B: Science, justice and legal issues	1.1C: Wildlife forensics, environmental crime and forensic taphonomy	1.1D: Fires and explosions	1.1E: Fingerprint examination	1.1F: Management & quality assurance	1.2G: Anthropology archaeology and odontology		
Chair	Kaye Ballantyne	Loene Howes	Matt Krosch	Andy Rowan	Alicia Finigan	Rechelle Cook	Denice Higgins		
Room:	Ballroom A	Ballroom B	Ballroom C	Samford	Victoria	Room 83	Room 82		
1300	Combining neural network profile processing and probabilistic genotyping Duncan Taylor	KEYNOTE Al and machine learning for DNA evidence: Addressing the practical legal issues Kerry Andresen & Caitlin Williams	KEYNOTE Surrender your shell: Development of a DNA database to trace the illegal tortoiseshell trade Greta Frankham	KEYNOTE The forensic explosives laboratory: An overview of great britain's forensic explosives investigation capability Matthew Beardah	KEYNOTE The printgym: An evidence-based training tool for accelerating the development of perceptual expertise in fingerprint examination Matthew Thompson	Forensic management system - development, implementation and adoption of a new case management system within AFP forensics Kylie Jones	KEYNOTE Preparing medical images for machine learning in forensic and virtual anthropology Ling I Martin Lo		
1330	SORTR: An automated system for the analysis and processing of reference DNA samples	Comparative analysis of Australian legislation regarding forensic DNA use Tersia Oosthuizen	The effect of necrophagous entomofauna on textile damage during the summer in Western Australia	Characterisation and identification of homemade explosives and their precursors Joshua D'uva	The XQ: An evidence-based measure of perceptual expertise in fingerprint examination	Forensic mortuary operations and the Covid-19 pandemic in Victoria, Australia Natalie Price	3-Dimensional comparison of twin dentitions for dental identification purposes Harry Perkins		

Rachel A Searston

Paola Magni

MONDAY 12 SE	MONDAY 12 SEPTEMBER (CONTINUED)							
	1.1A: Biological criminalistics	1.1B: Science, justice and legal issues	1.1C: Wildlife forensics, environmental crime and forensic taphonomy	1.1D: Fires and explosions	1.1E: Fingerprint examination	1.1F: Management & quality assurance	1.2G: Anthropology, archaeology and odontology	
Room:	Ballroom A	Ballroom B	Ballroom C	Samford	Victoria	Room 83	Room 82	
1350	A tool for simulating forensic DNA profiles for validation of probabilistic genotyping software Maarten Kruijver	The realities of an adversarial system: Lawyers and DNA evidence in criminal trials Kate Cashman	Ovipositional preferences and competitive effects: Dynamics of the interaction between primary blowflies and chrysomya rufifacies Michelle Harvey	Investigation of caravan explosion Mt Isa Darren Smith	How often do fingerprint experts disagree in routine casework? Michael Whyte	An initial investigation into understanding and mitigating reputational risk in forensics by using an independent risk framework lan Cowan	Human identification: an investigation of 3D models of paranasal sinuses to establish a biological profile on a modern UK population Madeline Robles	
1410	Making complex calculations involving relatives and DNA mixtures easy using the DBLR software Maarten Kruijver	Child soldier or soldier? Estimating age in cases of core international crimes: Challenges and opportunities Moa Lidén	The importance of exposure: What happens when insects can't get in? Natalie Gasz	Rapid on-site analysis of trace inorganic explosive residues using portable capillary electrophoresis Malcolm McCulloch	Fingerprint decision making down under: Accuracy and reliability Michael Whyte	More than words: Toward a common language for quality issues in forensic science Anna Heavey	The application of non-metric sex and ancestry estimation methods to virtual three-dimensional skull models Marion Davidson	
1430	The MPP Genotyper: An expert genotyping system for MPS data Paul Roffey	DNA identification of the HMAS Sydney unknown sailor – an 80 year mystery solved Jeremy Austin	Retrospective review of forensic entomology casework in Eastern Australia from the 1990's to the present Matt Krosch		Quantitative evaluation of the growth of fingerprints from juvenile to adult in a forensic setting Belinda Bastide		Sex determination from the lower limb measurements of tibia and foot using 3D volume rendering technique of computed tomography in north-west indian population: A forensic anthropological study Mohinder Sharma	

1430 - 1510 Rooms:

Afternoon TeaQueens Ballroom, Redlands, Moreton, Lockyer & Foyer

1510 - 1710	CONCURRENT SESSIONS					
	1.2A: Biological criminalistics	1.2B: Science, justice and legal issues	1.2C: Crime scene investigation	1.2D: Anthropology, archaeology and odontology	1.2E: Pathology and clinical medicine	1.2F: Management & quality assurance
Chair	Joannah Lee	Carolyne Bird	Donna MacGregor	Matt Krosch	Cheryl Charlwood	Rechelle Cook
Room:	Ballroom A	Ballroom B	Ballroom C	Samford	Victoria	Room 83
1530	Forensic DNA phenotyping for when the case has run cold Luke Ryan	Exhibit management and laboratory support across multi-disciplinary forensic units Jasmin Glover	Improved photographic techniques and workflows for supporting the digital recording and analysis of blood spatter Emma Bonaccordo		Bioacoustics and machine learning to monitor succession of necrophagous diptera Elena Gorgeva	Driving transformative change in the fingerprint sciences group Tracie Gould
1550	An innovative MPS workflow for the forensic application of phenotype and biogeographic ancestry prediction Paul Roffey	Transparency in forensic science – an enhanced reporting paradigm for Victoria Kaye Ballantyne	The development of a reliable impact spatter generator for use in bloodstain pattern analysis casework Shawn Harkins	Redefining the biological sex binary when assessing the sex of an individual Kristy Winter	A practical guide to post-mortem selective cervical angiography Katherine Hulme	Harm reduction through drug surveillance: A forensic approach Kelsey Seyfang
1610	The AFP MPS workflow - 17100 hours of work in 14 simple steps Isabelle Avent	The effect of report compliance on evaluations of forensic examiners reports Stephanie Summersby	The influence of textile construction and fibre composition on the shape and distribution of passive and spatter bloodstains Tylar Hoare	Rapid identification: Leaving behind the labour of comprehensive Disaster Victim Identification (DVI) process Lyndall Smythe	The last supper: Minimally invasive CT-assisted technique for post-mortem collection of gastric contents Evan Leckenby	Forensics training: No longer same as it ever was Scott White & Dr Mackenzie de la Hunty
1630	Navigating human eye colour predictions in a policing context Ashlea Kinnane	What do we know about lay comprehension of likelihood ratios? Kristy Martire	ESR's journey to improving the objectivity in bloodstain pattern analysis Rosalyn Rough	Assessment of ancestry in the Australasian region utilising variation in the human postcranial skeleton Callan Birkmann-Little	DNA identification from coronavirus test samples Michael Schwerer	The aftermath of comprehensive analysis of operative casework: Translation into evidence- led decision making Alison Sears
1650	Validation and implementation of a method for the prediction of biogeographical ancestry and externally visible characteristics Felicity Poulsen	What makes an expert persuasive? Examining the effects of expert likeability and evidence quality on jurors' evaluation of expert evidence Mariam Younan	Assessing the directionality characteristics of swipe bloodstains deposited on fabrics Isaac Arthur			
1710	End of day, evening free					

TUESDAY 13 SEPTEMBER

SPONSORED BY 0700 - 0800 BREAKFAST: RollsTechGlobal: Introducing the next generation of forensic solutions **Dolls Tech Global** 0800 - 1730 Registration desk opens **PLENARY SESSION 2** 0830 - 1000 Chair: Duncan McCarthy Grand Ballroom Venue: 0830 - 0835 Housekeeping 0835 - 0915 Designing the future of forensics: Mêtis and forensic intelligence Dr Michael Taylor 0915 - 1000 Transforming trace evidence into forensic intelligence in real time. The future is now! Trov O'Mallev 1000 - 1030 **Morning Tea** Rooms: Queens Ballroom, Redlands, Moreton, Lockyer & Foyer 1030 - 1200 CONCURRENT SESSIONS 2.1B: Illicit drugs 2.1D: Chemical 2.1F: Education and 2.1E: Fires and 2.1C: Firearms 2.1A: Biological 2.1C: Crime scene and clandestine criminalistics criminalistics investigation training explosions and toolmarks Chair/s: Paula Brisotto Peter Culshaw James Curran Joanna Bunford and Tracie Gould John Kelleher Matthew Bolton Tony Peter Room: Ballroom A Ballroom B Ballroom C Samford Victoria Room 83 Room 82 KEYNOTE **KEYNOTE KEYNOTE KEYNOTE** KEYNOTE KEYNOTE 1030 **KEYNOTE** Utilizing forensic Drugs have DNA A novel and Assessing the The invisible safety Ammonium nitrate Assessing the genetic genealogy innovative ground-truth net - the gradual explosion Angellala interpretation of **Amy Griffin** application of deep in an accredited of forensic soil chemically restored exposure to Creek Charleville learning to forensic provenancing deceased persons Queensland Australia serial numbers laboratory models: An urban/ examinations Rachel Oefelein program **Andrew Rowan** Joel Waszczuk suburban Australian Melissa Airlie Ian Franca perspective Michael Aberle 1100 From identity LSD or ALD-52 Cold case Dig it: The dynamics Home made Fire scene Forensic ballistics of soil chemistry by state (IBS) to found in stamps sexual assault explosives crime reconstruction validity analysis: identity by descent is it really what investigations: and its related testing and its use A review of scene course (IBD): The evolution you see? Case management microbiome in expert opinion unpublished Andrew Rowan of forensic genetic Angeline Tang strategy Jessica Hay statements: literature genealogy Renee Jelly Evidentiary Katherine Hogg requirements and **Dennis McNevin** case studies Rylee I am 1120 Sampling large drug Woman on fire The effect of Forensic genetic Future forensics: The persistence of Designing online genealogy: The seizures: Efficiency The rise of source characteristics and face-to-face - testing the different ratios training for the New new frontier in consultancy and without compromise under power-law hypotheses of metal-organic DNA investigative the fall of servicecontrolled transfer Zealand police scene frameworks Michael Forbes Simone Burge capabilities driven models of soil particles on of crime officer incorporated into shoe soles Rachel Nickerson ammunition Runa Daniel Annie Lam Jurian Hoogewerff Analisa Chiaraville 1140 It's all relative: A A newly encountered Geographic profiling Multimodal spectro-Redesigning the The European An unlikely police firearm training multi-generational illicit drug prefor the prioritisation scopic analysis of future of forensic network of forensic precursor in NSW science institutes family study of forensic Western Australian training in the incident using Forenseq Australian Federal intelligence suspect sandy soils for expert working **Daniel Coghlan Gerard Dutton** Kintelligence pools forensic purposes group on explosives Police (Verogen) Jane Russell Matthew Beardah Adam Marsden Talia Newland Runa Daniel 1200 The Australian Forensic science Development of an Federal Police's helps protect cultural ongoing competency approach to forensic and retraining heritage exploitation in high framework for Ivana Turková risk environments forensic biology/ DNA at the forensic Nicole Banicevic, & analytical science Alex Middlemiss & service Aaron Cox **Gavin Henderson**

1200 – 1300 **Lunch** Rooms: Queen

s: Queens Ballroom, Redlands, Moreton, Lockyer & Foyer

1200 - 1300 Lunch and Learn Session:

Empowering Efficiencies (invite only)



TUESDAY 13 SEP	TEMBER (CONTINUED)				
1300 - 1450	CONCURRENT SESSIONS				
	2.2A: Biological criminalistics	2.2B: Illicit drugs and clandestine laboratories	2.2C: Crime scene investigation	2.2D: Education and training	2.2E: Anthropology, archaeology and odontology
Chair	Kylie Rika	Sarah Atkinson	Jodie Ward	Sarah Cresswell	Denice Higgins
Room:	Ballroom A	Ballroom B	Ballroom C	Victoria	Room 83
1300	Validation of the Verogen ForenSeq™ Kintelligence Kit for the identification of human remains Jessica Watson	Australian native psychedelics: Wattle we think of Nex Xavier Conlan	An investigation into the use of entomology, taphonomy and algal succession for PMI estimations in aquatic environments Sarah Bray	Helping students to discover the alure of forensic science research Scott Chadwick	The development of a multi- disciplinary, minimally invasive approach for the forensic examination of skulls Ayusha Dahal
1320	Y-STR database searching: A valuable tool Sienna Collins	A systematic study of the presence of dimethyltryptamine and related psychoactive substances in Western Australian Acacia Richard Donovan	The forensics behind a femme fatale homicide Peter Cox	Have adjustments in response to COVID-19 restrictions improved forensic science education delivery? Stewart Walker	Validation of the manchester method for craniofacial reconstruction within an Australian context Desiree Davis
1340	Design and development of single multiplex system incorporating 26 rapidly mutating Y-STRS (RM-Yplex II) Abdulla Albastaki	Magic mushrooms in Western Australia: A look into psilocin trends and detections over a ten-year period Bethany Morey	A hidden identity behind the seamstress and his tangled web Tracy Starr	Influences on student interest in undergraduate forensic science courses: The impact of true crime Caroline O'Driscoll	Anthropological inputs of face analytics, facial tissue depths, and cephalometrics in forensic facial reconstructions: A systematic review and meta-analysis Sushil Kumar
1400		Dope ropes: Exploration of analysis techniques for cannabinoids found in edibles Emily Bottero & Alma Connelly	The exploitation of large-scale areas for human remains: Lessons learnt from a Queensland perspective Donna MacGregor	Authentic training for employment-ready graduates in a dynamic university environment Xavier Conlon	

1420 - 1500 Rooms:

Afternoon TeaQueens Ballroom, Redlands, Moreton, Lockyer & Foyer

1500 - 1700	CONCURRENT SESSIONS					
	2.3A: Biological criminalistics	2.3B: Chemical criminalistics	2.3C: Crime scene investigation	2.3D: Fingerprint examination	2.3E: Science, justice and legal issues	2.3F: Anthropology, archaeology and odontology
Chair/s:	Duncan Taylor	Joann Bunford & Tony Peter	Belilnda Bastide	Alicia Finigan	Kristy Martire	Alex Forrest AO
Room:	Ballroom A	Ballroom B	Ballroom C	Samford	Victoria	Room 83
1500	Building a database for evaluative reporting in casework Rachel Oefelein	Isotope ratio mass spectrometry analysis of soft polymer material Joe Meikle	Exhibit packaging and the preservation of latent fingermarks: An evidence-informed approach Georgina Meakin	The road to implementation: Empirical validation of the enhanced detection and visualization of fingerprints on bank notes by near-infrared powders Annemarie Nadort	A multifaceted, multiagency and multidisciplinary approach to investigating unidentified and missing persons cases in Australia Jodie Ward	Local re-use of World War II remains in East Sepik, Papua New Guinea Alexander Christensen
1520	An investigation into the substrate variables impacting DNA transfer, persistence, and recovery in forensic casework Deborah Hughes	Once upon a twine – the Donna Steele murder investigation Tony Peter	The viability of DNA and fingerprints post application of 3D scanning sprays Emma Hill	Verification of select infrared (IR) fingerprint techniques on Australian polymer banknotes Stephanie Oliver	Cold case murders: Improving policing family liasion strategy Xanthe Mallett	
1540	Improved DNA recovery from firearm components Todd Kaesler	Condom evidence trends in Western Australia Melissa Davies	Development and optimisation of a portable episcopic coaxial illumination device for in-field fingermark enhancement Zacchary Williams	Training to search for features can improve fingerprint matching ability Sam Robson	Covert sampling, familial searching and extradition. Solving the murder of Suzanne Poll Anthony van der Stelt & Duncan Taylor	
1600	Evaluation of DNA recovery methods and effects of gun lubricants and cleaners on DNA extraction efficiency from fired cartridge cases Colby Hymus	The critical importance of forensic determination or verification of provenance information in supply chains Cameron Scadding	Determination of shoemark examiner error rate following the verification process Rebecca Barrett	How to efficiently process large and complex fingerprint cases to generate timely results using Forensic Comparison Software (FCS) Michael Whyte	Re-orientating the application of forensic science within law enforcement, intelligence and counterterrorism Scott McLaren	
1620	Predicting probative levels of touch DNA on tapelifts using Diamond™ dye Isla Madden	Use of electronic nose technology to locate missing persons and monitor the rate of decomposition over time Maiken Ueland	Developing fingermarks on vinyl wrapped surfaces Lauren Atwood	Collective intelligence in fingerprint analysis Jason Tangen	Forensic science leading the fight against illicit pharmaceuticals Geoffrey Albert-Bolinski	
1640	Investigation of casework go! For improved DNA recovery from touch DNA exhibits Dan Bonsu	Discrimination of automotive window tints using infrared spectroscopy and chemometrics Georgina Sauzier				

TUESDAY 13 SEPTEMBER (CONTINUED)

1700 End of day

1900 - 2300 **SOCIAL NIGHT**

The Symposium theme Forensics: Designing the Future has provided us with the inspiration to transform us back to 1985 for a Back to the Future evening. Look back to 1985 (when the movie came out) - what you wore (either at work or social) back then or for those that were not born, the options are endless! Queensland Museum, Corner of Grey and Melbourne St, Southbank

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0800 - 1730	Registration desk opens									
0830 - 1000	PLENARY SESSION 3	PLENARY SESSION 3								
Chair:	Andy Rowan									
Room:	Grand Ballroom									
0830 - 0835	Housekeeping									
0835 - 0920	Emerging threats, emerging Dr Christina Baxter	ng solutions								
0920 - 1005	Keeping up with terrorist Al Grimmer	tactics (Virtual)								
1005 - 1030 Rooms:	Morning Tea Queens Ballroom, Redland	ds, Moreton, Lockyer & Foye	r							
1030 - 1200	CONCURRENT SESSIONS									
	3.1A: Biological criminalistics	3.1B: Illicit drugs and clandestine laboratories	3.1C: Crime scene investigation	3.1D: Document examination	3.1E: Management & quality Assurance	3.1F: Firearms and toolmarks				
Chair:	Robert Morgan	Christopher Verdon	Hadyn Green	Bianca McKechnie	Kirsty Pusey	Daniel Paine				
Room:	Ballroom A	Ballroom B	Ballroom C	Samford	Victoria	Room 83				
1030	Evaluation of the RapidHI™ ID System in the analysis of in-field crime scene samples Ellie Wilson	Pool chemistry: Exploring the current and potential use of TCCA in clandestine laboratories Clark Nash	A multidisciplinary approach to locating covert burials: Combining geographic profiling, lidar, and near surface geophysics Victoria Berezowski	Validation of forensic document examiners' skill, Part 1: Background and alteration examinations Carolyne Bird	Quality control monitoring in a forensic biology laboratory: A success story Felicia Gong	The billiard ball effect: Lead vs steel Neda Luketi c				
1050	Comparison of RapidHIT™ ID, direct PCR and standard DNA profiling for use in DVI scenarios Zoe Bowman	3,4-Dimethyl-5-phenyl- 2-oxazolidinone: Artefact or intermediate? Brendan Miller	Targeted crime scene investigations of hydroponic cannabis grow houses using crime script analysis Carol Mayne	KEYNOTE Validation of FDE skill, Part 2: Writing ink	Reconsidering the forensic in forensic genetic genealogy Nathan Scudder	2020 Allan Hodda Memorial Award: Mass shooting incidents Matthew Bolton				
1110	Analysis of mixed DNA profiles from the RapidHIT™ ID using STRmix™ Julieanne Henry	An improved analytical interpretation of the nagai and related reactions Clark Nash	Evaluation of crime scene scanning and mapping tools Eden Whittaker	and stamp impression examinations Diane King & Ben Kriss	A quality improvement tool to monitor saik collection – 'designed for the future' Michele Franco	Development of luminescent metal- organic frameworks for in-field detection of gunshot residue Analisa Chiaravalle				
1130	Illuminating the mechanism: A novel approach to detecting cross-contamination on automated platforms Catherine Hitchcock	Stable isotope profiling of 3,4-methylenedio- xyamphetamine (MDA) and 3,4-methylenedio- xymethylamphetamine (MDMA) prepared from helional Justin Cormick	Assessment of sketching applications and digital devices for digital crime scene documentation workflow Jennifer Raymond	2018 Allan Hodda memorial award: Forensic document examination: Contemporary issues, challenges and capabilities Linda Jones	Environmental DNA monitoring: A NSW perspective Lauren Atwood	Blind proficiency testing in forensic ballistics examination – an Australian trial Edward Schey				
1150			Application of the Faro Focus S150 and Faro Zone 3D for bullet trajectory reconstruction Grant Raven							

1150 - 1300 Lunch

Queens Ballroom, Redlands, Moreton, Lockyer & Foyer Rooms:

	WEDNESDAY 14 SEPTEMBER (CONTINUED)									
1300 - 1450	CONCURRENT SESSIONS									
	3.2A: Biological criminalistics	3.2B: Illicit drugs and clandestine laboratories	3.2C: Science, justice and legal issues	3.2D: Wildlife forensics, environmental crime and forensic taphonomy	3.2E: Electronic and digital evidence	3.2F: Fingerprint examinations				
Chair/s:	April Stock	Richard Donovan	Loene Howes	Matt Krosch	Laura Stroebel & Selena Huf	Sarah Cresswell				
Room:	Ballroom A	Ballroom B	Ballroom C	Samford	Victoria	Room 82				
1300	A whole genome mitochondrial database for the New Zealand population Bethany Forsythe	Forensic drug intelligence: Australia's drugs – crossing borders at home and abroad Karly Redwood	The Sydney declaration: Revisiting the essence of forensic science – an Australian perspective Claude Roux	Profiling the volatilome of human skeletal remains for compounds recognisable by cadaver detection dogs Sandali Alahakone	KEYNOTE Battle of the face experts: Facial examiners vs. Super-recognisers vs. Algorithms Alice Towler	1,2-Indanedione reagent: Investigation into operational use in a small, remote, jurisdiction Justin Bouzin				
1320	Evaluating the suitability of current mitochondrial DNA interpretation guidelines for multigenerational whole mitochondrial	Illicit drugs hide and seek: The analysis of concealed drugs Kelsey Seyfang	Forensic fundamentals Hannah Jarman	Profiling the volatile organic compounds released from human remains covered with lime Bridget Thurn	Determination of	Impact of de-sticking methods on fingermarks developed on adhesive tapes Scott Chadwick				
	genome comparisons Jasmine Connell			ū	vehicle speed utilizing reverse projection photogrammetry Walter Bruehs					
1340	Validation of the Precision ID™ mtDNA whole genome panel and the lon GeneStudio™ S5 Plus Sequencer for mitochondrial DNA casework Catherine Hitchcock	Drug checking in Aotearoa New Zealand: The past, present and future Olivia Johnson	Forensic science – from organisation to a discipline Claude Roux	Examining the effect of clothing on the decomposition of remains and algal succession, for estimating a post-mortem submersion interval Madison Bone	Determination of vehicle speed from video recordings with variable frame rates Walter Bruehs	Comparison of carbon and iron oxide-based powder suspension formulations Lumikki Clover Ree				
1400	Optimisation of a mitochondrial DNA whole genome sequencing workflow for missing persons casework Kelly Grisedale	New psychoactive substances: A Singapore perspective Mei Ching Ong	Forensic science integrity in Africa Antonel Olckers	Adaptation of the citrate method to an Australian temperate environment Zaccariah Knobel	Vehicle system forensics Ben Lemere	Assessing HFE-7100 blends of all-in-one iodine naphthoflavone fingermark developers William Gee				
1420			The invisible forensic scientist: How forensic scientists are written out of media narratives about crime solving Liz Porter			Efficiency of ray dye stain to enhance latent fingerprints on surfaces commonly found in improvised explosive devices Brooke Wright & Matthew Cawte				

1440 - 1510

Afternoon TeaQueens Ballroom, Redlands, Moreton, Lockyer & Foyer Rooms:

1510 - 1610	CONCURRENT SESSIONS				
	3.3A: Biological criminalistics	3.3C: Wildlife forensics, environmental crime and forensic taphonomy	3.3D: Anthropology, archaeology and odontology	3.3E: Toxicology and pharmacology	3.3F: Crash investigation
Chair	Dennis McNevin	Greta Frankham	Denice Higgins	Carney Matheson	Alex Forrest AO
Room:	Ballroom A	Ballroom C	Samford	Victoria	Room 82
1510	An evaluation of the use of nanopore sequencing technology for whole genome mitochondrial analysis for forensics Bethany Forsythe	The development of in-field organic and inorganic screening methods for intelligence gathering at pollution incidents Denise Duff	Cognitive and forensic confirmation bias: A global survey of forensic anthropologists Kiu Nga Leung	Confirmatory analysis of snake venoms utilising HR-LCMS through bottom-up proteomics – application to coronial toxicology Sarah McCabe	When data sees everything – a case study Jenelle Hardiman
1530	Preliminary investigation into recovery and profiling of DNA from drug residues Alexandria Bertram	Highly adaptable, generic in-field analysis framework for use at pollution incidents Val Spikmans	Analysis of the post-mortem imaging of the dentition and upper airways of nursing home residents died from choking Lyndall Smythe	A retrospective analysis of pharmaceutical substance- related coronial deaths in South Australia over 20 years Lilli Stephenson	When two worlds collide – a case study Michael Hardiman
1550	Developing a method for the detection, sampling and human DNA profiling of blood-stained soil Georgia Teese	Environmental forensics: Using advanced analytical methods to solve environmental crimes Anil Gautam	Head and neck fractures resulting from fatal one-punch assaults: A pilot study Samantha Rowbotham		
1630	ANZESS Annual General Meeti	na			

ANZFSS Annual General Meeting Grand Ballroom 1630 Room:

1730 End of day, evening free

1800 - 1930

PUBLIC PRESENTATION: The Power of Investigative Genetic Genealogy to Solve Violent Crime Anne Marie Schubert

Grand Ballroom Room:

THURSDAY 15 SEPTEMBER

0700 - 0800	BREAKFAST: Designing the future together!				SPONSORED BY AFP.
0800 - 1730	Registration desk opens				
0830 - 1000	PLENARY SESSION 4				
Chair:	Carney Matheson				
Venue:	Grand Ballroom				
0830 - 0835	Housekeeping				
0835 - 0915	Designing R & D to support fore Dion Sheppard	ensic science of the future			
0915 - 1000	How the Coroners Courts work Coroner Don MacKenzie	and the importance of forensic so	cience to that work		
1000 - 1030 Rooms:	Morning Tea Queens Ballroom, Redlands, Mo	reton, Lockyer & Foyer			
030 - 1150	CONCURRENT SESSIONS				
	4.1A: Biological criminalistics	4.1B: Document examination	4.1C: Crime scene investigation	4.1D: Education and training	4.1E: Fingerprint examination
Chair	Justin Howes	Carolyne Bird	Andrew Stanley	Sarah Cresswell	Alicia Finigan
Room:	Ballroom A	Ballroom B	Ballroom C	Samford	Victoria
1030	Modern family: Familial DNA, NSW Police and major crime investigations Joshua Smith	The potential of using the profiles of fraudulent Australian identity documents to assist in intelligence-led policing Ciara Devlin	Contemporary issues in forensic science – worldwide survey results Melissa Airlie	Overt development of critical thinking skills in forensic students to enhance employability Michelle Harvey	The impact of fingerprint development techniques on DNA evidence recovery Breannan Taylor
1050	Familial searching: A valuable tool Alice Cochrane	Understanding the Australian fraudulent document market on an anonymous online darkweb marketplace Ciara Devlin	Familial DNA in criminal investigations: Case management strategy Renee Jelly	Critical forensic studies: Generating critical thinking about forensic science among current and future criminal justice practitioners Loene Howes	Case study: How a mummifie dismembered finger was reunited with its owner: A mikrosil story Michael Whyte
1110	The missing piece of the missing persons puzzle – familial searching Carole Field	Who was Amadeo Wolfgango Mozart? Martin Jarvis	The effect of direct application of acid phosphatase reagent on DNA analysis of semen stains Richard Patterson	Scaffolding for impact: Active learning, attitudes and achievement in forensic education Georgina Sauzier	The impact of biodegradable plastics on fingermark development Harrison Woodward
1130	A case for identification – a collaborative, multidisciplinary, cross jurisdictional approach Natasha Mitchell	Why the thematic catalogue is not written by W A Mozart Martin Jarvis	Trace-ing success of DNA recovery rates over time. A comprehensive analysis of operative casework trace DNA data Lauren Atwood	Reflection on industry partnerships with education developing forensic responses - Graduate Certificate in Forensic Fingerprint Investigation (POL84215) Russell Stuart	
1150	Examples of new investigative leads generated from large-scale, inter-case crime scene profile comparisons Duncan Taylor				
1150 – 1300 Rooms:	Lunch Queens Ballroom, Redlands, Mo	reton, Lockyer & Foyer			
1300 - 1440	CONCURRENT SESSIONS				
	4.2A: Biological	4.2B: Chemical criminalistics	4.2C: Crime scene	4.2D: CBRN and	4.2E: Illicit drugs and clandestine laboratories
Chair/s:	criminalistics Hannah Jarman	Joanna Bunford and Tony Peter	Investigation William Gee	counter-terrorism Michael Logan	Sarah Cresswell
Room:	Ballroom A	Ballroom B	Ballroom C	Samford	Victoria
1300	Improvements to RNA-based	Five years since pcast:	A quantitative analysis of	New detection technologies	Evaluation of portable GC-MS
300	body fluid identification Courtney Lynch	The value of materials science and tribology as foundational science for transfer and persistence Michael Aberle	the applied force used in blunt force impacts involving bloodstain deposition Gabrielle Ziersch	for CBRN incidents and forensics Christina Baxter	for the in-field identification of samples at clandestine laboratories Paige Walker
320	A comprehensive study into the false positive rates for 'other biological' samples using common presumptive testing methods Stephanie Opperman (Virtual)	The effect of recipient surface characteristics on the transfer and persistence of glass fragments Anjali Gupta	Sodium percarbonate as an alternative thermally stable oxidiser for luminol Nicholas Harvey-Walker	Tatp standoff detection pre and post blast Andrew Rowan	
1340	Hunting for sperm using deep learning Amelia Gamblin	A multivariate method for comparison of forensic glass evidence Oliver Lountain	Improving the selectivity of blood presumptive tests using ethylenedia-minetetraacetic acid (EDTA) Carney Matheson	Forensic examinations inside the hot zone. The Queensland experience Andrew Rowan	A semi-quantitative method for detecting selected fentany using surface-enhanced rama scattering (SERS) with a hand held instrument Matthew Smith

	4.2A: Biological criminalistics	4.2B: Chemical criminalistics	4.2C: Crime scene Investigation	4.2D: CBRN and counter-terrorism	4.2E: Illicit drugs and clandestine laboratories			
Room:	Ballroom A	Ballroom B	Ballroom C	Samford	Victoria			
1400	A new Artificial Intelligence (AI) brain for an old automated spermatozoa scanning microscope Hiu Tan Lau	Improving the interpretation of the evidential value of vehicle and architectural paint Fiona Jackson	Source level attribution: DNA profiling from the Abacard* Hematrace* kit Louise Wallis	From Marie Curie to Cosmic Curie: When nuclear science meets operational forensics Melanie Fraser	Developing a data-driven drug classification model using NIR spectroscopy Deepak Karunakaran			
1420	Identifying unique microbial signatures pre- and post-coitus by massively parallel sequencing and its potential to detect sexual contact Ruby Dixon	The (martial) art of evaluating fibre evidence Victoria Lau	Determining the effects of targeted training on BPA classification error rates Tanya Lang	Nuclear security science in Australia: What, why and how? Kaitlyn Toole				
1440 - 1510 Rooms:	Afternoon Tea Queens Ballroom, Redlands, Mo	reton, Lockyer & Foyer						
1510 - 1700	CONCURRENT SESSIONS							
	4.3A: Biological criminalistics	4.3B: Biological criminalistics	4.3C: Electronic and digital evidence	4.3D: Management & quality assurance	4.3E: Education and training			
Chair/s:	Paul Roffey	Julianne Henry	Selena Huf	Carney Matheson	Rechelle Cook			
Room:	Ballroom A	Ballroom B	Ballroom C	Samford	Victoria			
1500	Developing an efficient DNA profiling protocol for degraded human remains and disaster victim identification Jeremy Watherston	Optimising direct amplification of reference samples collected on FTA® classic treated paper using the Verifiler™ Plus PCR amplification kit Luke Ryan	Understanding quality loss when transcoding video Dorothy Stout	Operationalising forensic research: The NSWPF Science & Research Unit Jen Raymond	Utilising virtual reality to enhance skill development in the forensic sciences Jemma Berry			
1520	An effective DNA protocol for the genetic identification of human remains Laura Nutton	Maximising trace DNA recovery in I-SEP® differential separated sexual assault samples Tammara White	Creating and qualifying open- source programs to automate the processing for significant quantities of digital video Joel Grima	AFP forensics specialist cohort model Cherrone Ellis	The application of microsoft hololens for crime scene investigation training and proficiency testing Brendan Riley			
1540	Evaluation of Powerplex* 21 and Verifiler™ Plus in the analysis of DNA from buried and incinerated human bones Jasmin Zoranjic	Optimisation of nanopore sequencing for forensic STR analysis Olivia Stroeven	Can 3D printing further a police investigation and help solve crime? Selena Huf	Proficiency testing. Is the tail wagging the dog??? Anna Davey				
1600	The detection and recovery of foreign biological fluids from the clothing of deceased individuals post decomposition David Bruce	Targeted nanopore sequencing for SNP genotyping and CPG methylation profiling for real-time in-field forensic DNA analysis Wing Sze Yuen	Shoeprint image retrieval by using convolutional neural network and normalized cross correlation Zhijian Wen (Virtual)	Lumi drug scan: Shining a light on drug detection. A review of the NZ Police - ESR field pilot Dion Sheppard				
1620	Concurrent sessions conclude Delegates make way to Ballroon	n A & B for prize announcements						
1630	CLOSING SESSION AND AWAR	D PRESENTATIONS						
Chairs:	Alex Forrest AO, Donna MacGre	gor, Andrew Stanley						
	Grand Ballroom							

1900 - Late

Venue:

SYMPOSIUM GALA DINNER

Brisbane City Hall, 64 Adelaide St Brisbane