



WORLD CONFERENCE ON MALAYSIA DROWNING PREVENTION 2015

Bridging communities to prevent drowning

Program Guide Supplement

Co Sponsored by:



Hosted by:



Supported by:



Bridging communities to prevent drowning

PRESENTED BY



CO SPONSORED BY



World Health Organization

COUNTRY PARTNERS



PROGRAM SUPPORT



SPONSORS

GOLD



SILVER



忠有限公司
CHONG COMPANY SDN. BHD. (5009-W)
54, Jalan Dato Keramat, 10150 Penang, Malaysia.
E: marketing@chongcompany.com.my
W: www.chongcompany.com





Contents

DAY ONE - WEDNESDAY 4TH NOVEMBER 2015.....	2
Session 1 - Opening Ceremony 9:00 – 10:30am	2
Session 2 - Opening Plenary 11:00 – 12:30pm	3
Session 3 – Concurrent Papers 1:30 – 3:00pm	3
Session 4 – Concurrent Papers 3:30 – 5:30pm	5
DAY ONE POSTER DISPLAYS (FROM 8:45AM)	8
DAY TWO – THURSDAY 5TH NOVEMBER 2015	9
Session 5 – Day Two Plenary 8:45 – 10:15am	9
Day Two Plenary – Highlights from Prevention, Rescue, Treatment, Disaster.....	9
Session 6 – Concurrent Papers 11:00 – 12:30 pm	9
Session 7 – Concurrent Papers 1:30 – 3:00pm	12
Session 7 – Concurrent Papers 1:30 – 3:00pm	13
Session 8 – Concurrent Papers 3:30 – 5:30pm	14
DAY TWO POSTER DISPLAYS (FROM 8:30AM)	17
DAY TWO – FRIDAY 6 TH NOVEMBER 2015	18
Session 9 – Concurrent Papers 9:00 – 10:30am	18
Session 10 - Concurrent Papers 11:00 – 12:30pm	20
Session 11 – Closing Plenary 1:30 – 3:00pm.....	22
Session 12 – Closing Ceremony 3:30 – 5:00pm	23
DAY THREE POSTER DISPLAYS (FROM 8:45AM).....	24
SYMPOSIUM 1 Hypoxic Blackout, Shallow Water Blackout – epidemiology, terminology, prevention	25
SYMPOSIUM 2 Safe Rescue and CPR in low resource settings	26
SYMPOSIUM 3 Symposium: Data – What is it good for?.....	27
SYMPOSIUM 4 National Water Safety Plans	28
SYMPOSIUM 5 Survival swimming – challenges and opportunities;	29

SOCIAL MEDIA - Please use #wcdp2015

Access online resources at:

EVENT INFORMATION	EVENT MOBILE APP
	
<p>https://royallifesaving.eventsair.com/world-conference-on-drowning-prevention-2015/event-info</p>	<p>https://royallifesaving.eventsair.com/attendeeapp/world-conference-on-drowning-prevention-2015/wcdp2015/</p>

This program and proceedings book was developed with financial assistance from Royal Life Saving Society - Australia.
 Editor: Justin Scarr Editorial Assistance: Alison Mahony Kristal Grainger Craig Roberts Chris Groneman Amy Peden Monique Sharp Design: www.jimmytoo.com.au

DAY ONE - WEDNESDAY 4TH NOVEMBER 2015

Session 1 - Opening Ceremony 9:00 – 10:30am

Master of Ceremonies *Mr Jay-T*

Location: *Grand Ballroom*

Welcome of the President of the Life Saving Society Malaysia

– *Mr Lim Chien Ch'eng*

Welcome of the President of the International Lifesaving Federation

– *Mr. Graham Ford*

Welcome of the Regional Director of the World Health Organisation Western Pacific Region

– *Dr Shin Young-soo*

Deputy Minister of Health Government of Malaysia

– *Dato Dr. Hilmi Yahya*

Governor of Penang declares conference open

– *His Excellency Tun Dato' Seri Utama (Dr.) Haji Abdul Rahman bin Haji Abbas*

MORNING TEA BREAK

Session 2 - Opening Plenary 11:00 – 12:30pm

Chair: *Mr Justin Scarr*

Location: *Grand Ballroom*

Purpose:

PRESENTER	PAPER	PAGE
Dr David Meddings	The Global report on drowning prevention: Challenges and prospects for global progress	18
Dr Michael Linnan	The experience with the public health approach to the drowning epidemic in Asian LMICs	273
Dr Aminur Rahman	A decade of experience in child drowning prevention in a low-income country setting, Bangladesh : implications for other similar settings	66
Dr Amar-Singh HSS	Drowning In Malaysia	15
Mr Lim Chien Che'ng	A National Water Safety Council for Malaysia	16

LUNCH BREAK

Session 3 – Concurrent Papers 1:30 – 3:00pm

RESCUE 1 – Coastal Safety Management

Chair: *Mr Peter George*

Location: *Ballroom 1*

Format: *15min (inc questions) presentations followed by panel discussion.*

PRESENTER	PAPER	PAGE
Mr Peter Dawes	Measuring the effectiveness of preventative actions conducted by lifeguards in the UK	202
Roy Fielding	The Lifeguard Rescue Reporting System	203
Ms Sarah Anderson	The Total Service Plan: Case studies highlight how evidence is used to shape policy and inform intervention strategies.	204
Dr Jeff Wilks	Lifeguards at Hotels, Resorts and Commercial Premises: Drowning prevention and duty of care	205
Mr Steve Wills	10 phases to setting up a sustainable lifesaving service in a low resource setting	206

DATA 1 - Research Methodologies

Chair: *Associate Professor Richard Franklin*

Location: *Ballroom 2*

Format: *15min (inc questions) presentations followed by panel discussion.*

PRESENTER	PAPER	PAGE
Associate Professor Richard Franklin	Drowning in a sea of publications: The state of knowledge and gaps in the 2014 literature	19
Mr Dan Ryan	Methodological Challenges in Estimating the Global Economic Cost of Drowning Mortality	20
A.M. Venema	Review on the use of the Utstein Style For Drowning (USFD) as a tool to study drowning: preliminary results.	21
Dr. Andrew Schmidt	The Use of Non-Utstein Style Drowning Terms since 2010: a follow-up study.	22
Ms Amy E Peden	The Royal Life Saving National Fatal Drowning Database: An Historical Overview to Date	23

Session 3 Continued – Concurrent Papers 1:30 – 3:00pm

PARTNERSHIPS 1 – National Water Safety Plans

Chair: **Mr Norman Farmer**

Location: *Ballroom 3*

Format: *15min (inc questions) presentations followed by panel discussion.*

PRESENTER	PAPER	PAGE
Professor Joan Ozanne-Smith	Coordination of the drowning prevention and development agendas	274
Dr Bernadette Matthews Mr Sanath Wijayarathne	Development and implementation of a water safety and drowning prevention model: A case study Sri Lanka	275
Mrs Vicki Hartley-Kite Mr Will Stephens	Insights into the Development of a National Strategy for Drowning Prevention for the UK by the National Water Safety Forum (NWSF)	276
Stephen B Beerman	Creating the National Drowning Prevention Plans, Canadian approach to this opportunity for impact.	277
Mr Justin Scarr	Australian Water Safety Strategy - Evolution, Successes and Challenges	278

WHO WESTERN PACIFIC REGION MEETING (CLOSED)

Chair: **Jonathon Passmore**

Location: *Tekekur*

SWIMMING & WATER SAFETY 1 – Methods, Models and Trials

Chair: **Ms Jennifer Schembri-Portelli**

Location: *Bayan*

Format: *15min (inc questions) presentations followed by panel discussion.*

PRESENTER	PAPER	PAGE
Dr Aminur Rahman	A profile of survival swimming teaching programme in a low resource setting – experience from Bangladesh	67
Dr Michael Linnan	The level of swimming skill necessary to protect children in LMICs from drowning	68
Dr Kevin Moran	From "Swimming Skill" to "Water Competence": Towards a more inclusive drowning prevention future	69
Ms Kate Simpson in Victoria, Australia"	"Trial of a 'Before School Swimming and Water Safety Model' 70	
Dr Martin Barwood	Should you leave your clothes on? Performance and thermoregulatory consequences of clothing during resting cold water immersion and survival swimming	71

TREATMENT 1 – ILCOR, AEDS, Survival Rates

Chair: **Dr Peter Wernicki**

Location: *Serindit*

Format: *15min (inc questions) presentations followed by panel discussion.*

PRESENTER	PAPER	PAGE
Dr Natalie Hood	Overview of the ILCOR Process and First Aid Treatment Recommendations Relevant to the Aquatic First Aid, Rescue and Resuscitation Environment	306
Mr Caleb Brown	Lifeguards & Pool Responders Saving Lives with Automated External Defibrillators (AEDs) – Achieving Survival Rates of 86%	307
Dr John Fitz-Clarke	Computer Simulation of Drowning Physiology and Resuscitation Strategies	308
Dr Justin Sempstrott	Team Focused, "Pit Crew" Drowning Resuscitation: Case Reports and A Novel Approach for Pre-Hospital Providers	309
Professor John Pearn	First, do no harm: Old and new paradigms in rescue, resuscitation and trauma prevention	310

AFTERNOON TEA BREAK

Session 4 – Concurrent Papers 3:30 – 5:30pm

RESCUE 2 – Lifeguard Services, Surveillance

Chair: Dr Harald Vervaecke PhD

Location: Ballroom 1

Format: 10mins per presentation followed by panel questions.

PRESENTER	PAPER	PAGE
Mr Nick Mulcahy	Data to decision-making: a surf lifeguard supervision model for New Zealand beaches	207
Mr Peter George	Feasibility of Remotely Piloted Aircraft in Lifesaving Operations	208
Mr Andy Kent	A Coordinated Approach to decrease Response Times & Reducing Drowning	209
Mr Adam Wooler	The Science of Beach Lifeguarding - a new book from CRC Press	210
Mr. B., Chris Brewster	The History of Beach Lifeguarding	211
Mr Martin O'sullivan	Public Rescue Equipment and the Chain of Survival	212
Ms Barbara Brighton	SLSA PPE Project: Development of the Level 25 Lifejacket	136
Mr Billy Doyle	Surveillance Errors by Lifeguards- A comparison of Results 2007-2014: Have we improved?	213
Mike Melenchuk	Hiring Waterfront and Surf Lifeguards: Looking back at ten years of data	215
Theo van der Linden	Registration of medical interventions by lifeboat crews with the aim to improve the quality and effectivity of training program	216

DATA 2 - Research Methodologies

Chair: Ms Amy E Peden

Location: Ballroom 2

Format: 10mins per presentation followed by panel questions.

PRESENTER	PAPER	PAGE
Mr Thomas Walters	Safety in Numbers: developing monitoring and evaluation frameworks for drowning prevention programmes	24
Dr (PhD) Ana Catarina Queiroga	Drowning Science will benefit from research conducted by experienced lifeguards assisted by academics - Practical example	25
Mr Robert Andronaco	Capturing and using geographically distributed drowning event data: A best practice primer	26
Leonardo Springer	Lifeguard drowning Incident report form. From design to field-test and improvement	28
Msc Olga Marques	SEGMAR: a data collection system to follow as example of good practice	27
Associate Professor David Kennedy	Drowning hazards on rocky coasts: A new method for quantifying drowning exposure for micro-tidal rock platforms	30
Dr (PhD) Ana Catarina Queiroga	Multicentre Drowning registry on epidemiological, prevention, rescue and life-support data	31
Professor Stephen J. Langendorfer	Role of the International Journal of Aquatic Research and Education in World Drowning Prevention	32

Session 4 Continued – Concurrent Papers 3:30 – 5:30pm

PREVENTION 2 – Drowning Prevention Campaigns

Chair: Ms Barbara Byers

Location: Ballroom 3

Format: 10mins per presentation followed by panel questions.

PRESENTER	PAPER	PAGE
Ms. Elizabeth Bennett	A Policy Strategy for Open Water Drowning Prevention-from Planning to Action to Evaluation	72
Ms Rhiannon Birch	Can a public awareness campaign change rock fishing safety behaviours?	73
Dr David Szpilman	Drowning prevention– different scenarios needs customization water safety messages and actions	74
Dr Justine Leavy	This much? Insights into the formative research underpinning a Western Australian child drowning prevention television campaign.	75
Mrs Penny Larsen	Bronze e-Lifesaving - bringing lifesaving into the classroom for secondary school students	76
Mrs Amanda Juniper	Using photography and yarning to evaluate an Aboriginal community swimming pool program in remote Australia	77
Dr David Szpilman	Drowning prevention in Flood – A cartoon video produced by Sobrasa e ILS Americas - Portuguese, English and Spanish language	78
R.Admiral Romano Grandi	“AQUA” and “LITTLE CAPTAIN” (three cartoons for the prevention of drowning accidents of children, which can be used all over the world).	79
Mr Theologos-Ioannis Terziadis	Study of the level of knowledge and awareness of children in Greece during the first school age (6-12 years), in the risk of drowning and the safe behavior of prevention and treatment.	80
Wayne Van Sambeek	Remote Swim & Survive: How strong community relationships in remote Indigenous communities can prevent drowning.	81

PARTNERSHIPS 2 – Practice from Uganda to New Zealand

Chair: Mr Norman Farmer

Location: Tekekur

Format: 10mins per presentation followed by panel questions.

PRESENTER	PAPER	PAGE
Dr. Kamran Baset	Implementing the recommendations of the global report on drowning in low-middle income countries –experience from Bangladesh	279
Mr Steve Wills	Developing a drowning reduction plan using the World Health Organisation 7 steps - Barisal, Bangladesh Case Study	280
Mr Daniel Graham Mr William Koon Dr Justin Sempsrott"	Stop, collaborate and listen: developing a national drowning prevention strategy in Uganda.	281
Barbara Costache	The Establishment Of A Drowning Prevention Action Plan: Incorporating Community Ownership And Building Capacity In Northern Canada.	282
Mr. Richard Ming Kirk Tan	Challenges of drowning prevention in Singapore	283
Mr Mark Lindsay	Changing the Culture? A Collective Response to Reduce Drowning	284
Ms Di Steer	Insight into the success of RLSS UK in engaging central government in the drowning prevention agenda through political lobbying.	285
Mr Jonathon Webber	Creating a new Drowning Chain of Survival	286
Mr Roger Sweeney	Marketing as an educational tool - an Irish Water Safety perspective	287
Christoph Müller	Two steps to a Swiss Water Safety Plan	288

Session 4 Continued – Concurrent Papers 3:30 – 5:30pm

SWIMMING & WATER SAFETY 2 - Methods, Models and Trials

Chair: Assoc Prof Jenny Blitvich

Location: Bayan

Format: 10mins per presentation followed by panel questions.

PRESENTER	PAPER	PAGE
Ms Teresa Stanley	The provision of Aquatics Education within Primary Schools in the Greater Auckland Region	82
Associate Prof. Robert Keig Stallman	Balanced progress: optimal protection in a drowning prevention context - a conceptual model	83
Dr Kevin Moran	Dressed to kill? The effects of clothing on water competency	84
Karin Brand	The definition of swimming ability and the curriculum	85
Dr Kevin Moran	I can swim but can I get out? The 'exit problem' explored.	86
Ms. Nina Nyitrai	Is the Australian Swimming Benchmark useful for the prevention of drownings? Building an evidence-base for conditions associated with fatal drownings	87
Prof. Dr. Claus-Martin Muth	The decreasing ability to swim in children in an industrial nation – a growing problem	88
Associate Prof. Robert Keig Stallman	Parallel Teaching: Maximizing teaching efficiency - optimizing learning effect	89
Ms Pam O'Reilly	Keeping Kids Afloat	91

TREATMENT 2 – CPR, AEDs, First Aid

Chair: Dr Peter Wernicki

Location: Serindit

Format: 15mins per presentation followed by panel questions.

PRESENTER	PAPER	PAGE
Professor John Pearn	Shallow water blackout - risks and prevention	312
Jeroen Seesink	Evaluation of the first 4 years of automated external defibrillators (AED) at lifeboats	313
Dr Justin Sempsrott	Pre-Hospital Drowning Resuscitation: A Novel Statewide EMS Protocol	314
Dr Douglas Johnson Dr Ned Douglas	Comparison of supraglottic airways to standard techniques for ventilation during simulated cardiac arrest by Australian surf lifesavers	315
MD, PhD Claus-Martin Muth	Underwater resuscitation	316
Dr. Mohammad Jahangir Hossain	Effectiveness of first-aid program for drowning prevention in rural areas of Bangladesh	317

DAY ONE POSTER DISPLAYS (FROM 8:45AM)

Location: *Poster Foyer*

PRESENTER	POSTER	N ^o	PAGE
Elie Vignac	Tracking fatal drownings in public swimming pools: An attempt at retrospective multi-scale counting within France	1	58
Associate Professor Richard Franklin	Looking Upstream to Prevent Drowning	2	55
R. Admiral Romano Grandi	BEACH RESCUE - Lifeguarding Service, Legislation and Organization in Italy: a strange anomaly and an unacceptable gap.	3	257
Prof. Jonathan Guevarra	Current State and Future Challenges of Drowning Prevention in the Philippines	4	301
Ms Torill Estelle Hindmarch	Toddler swimming and drowning prevention: in search of best practice from a Nordic perspective.	5	169
Mr Mosharaf Hossain	Effectiveness of mobile SMS based intervention for children drowning in Bangladesh: study protocol of a mixed method	6	167
Mr Peter Kamstra	Public Risk on Shore Platforms: How do Surf Life Saving Australia (SLSA) Experts Perceive Risk on Rocky Shores?	7	56
Mr Job Kania	Establishment of public aquatic facility safety standards in Kenya	8	172
Mrs. Louise Kublick	Water Activities for Persons with Tracheostomies: A Drowning Prevention Perspective	9	320
Dr Paddy Morgan	I-gel supraglottic airway use in cardiac arrest secondary to drowning – a case series from UK search and rescue.	10	319
Mr Nick Mulcahy	Reconceptualising the Drowning and Injury Prevention Strategy for aquatic risk management	11	174
Kathryn Murray	The right communication tools designed to engage the right audience	12	300
Romero Nunes Da Silva Filho	Role of Lifesaving Sport events as a drowning prevention tool – case study in Brazil	13	170
Ms Amy E Peden	Can you #MakeltSafe? A national public education program to prevent drowning in portable swimming pools in Australia	14	166
Prayoon Pidjayoung	STOP Drowning in Chumpolburi District, Surin Province	15	168
Saichon Praengkrathok	Forecasting of drowning deaths in the area of the Office of Disease Prevention and Control 6th Khon Kaen, Thailand, 2014	16	59
Dr. (PhD) Ana Catarina Queiroga	Relevant Social and Economic Impact of Lifesaving Social Economy Organizations worldwide	17	299
Rear Admiral Francisco Braz da Silva	Influence of national partnerships at reducing the number of coastal drowning incidents	18	298
Dr Aminur Rahman	Does teaching children to swim increase exposure to water or risk-taking when in the water? Emerging evidence from Bangladesh	19	53
Major Antonio Schinda	Drowning profile in the state of Parana	20	57
Mrs Pamela Simon	Develop our People	21	256
Sakorn Srikruadam	Shout Throw Deliver	22	171
Associate Prof. Robert Keig Stallman	A Water Competence Index & A Competency Profile: A conceptual model	23	164
Dr David Szpilman	Profile of drowning deaths at swimming pools and bathtubs in Brazil – A 9-years evaluation (2003-2011)	24	54
Dr David Szpilman	Can a lack of domestic water trigger an imminent drowning disaster?	25	338
Dr David Szpilman	Drowning Prevention Seeders – A free web-based prevention program	26	165
Prof Alexandre Tadeia	Sports strategy of the Portuguese lifesaving federation, based on water safety education, uptake and preparation of lifeguards	27	173

#

DAY TWO – THURSDAY 5TH NOVEMBER 2015

Session 5 – Day Two Plenary 8:45 – 10:15am

Day Two Plenary – Highlights from Prevention, Rescue, Treatment, Disaster

Chair: Mr Justin Scarr

Location: Grand Ballroom

PRESENTER	PAPER	PAGE
Dr. Joost Bierens	The new 2015 ILCOR guidelines for drowning situations and the impact on resuscitation courses for lifesavers	318
Mr Andrew Gissing	Lessons Learnt to Improve Disaster Risk Reduction	324
Dr. Olive Kobusingye	Epidemiology of drowning among fishing communities on the shores of Lake Victoria in Uganda	33
Ms Barbara Byers	A study of the barriers, motivators and high potential opportunities to substantively improve safe boating behaviours among Canadian boaters	92
Ms. Elizabeth Bennett	Water Safety Education and Skill Building for Immigrant and Refugee Families; a Capacity Building Approach	93
Dr. Detlev Mohr	Safer Europe by higher qualified Lifeguards and Water Safety Managers - Two Projects for the European Qualification Framework	217

MORNING TEA BREAK

Session 6 – Concurrent Papers 11:00 – 12:30 pm

RESCUE 3 - RIP Currents

Chair: Mr Peter George

Location: Ballroom 1

Format: 10mins per presentation followed by panel questions.

PRESENTER	PAPER	PAGE
Dr. Prof. Dario Giorgio Pezzini	Typology of Italian Beaches in Relation to Rip Currents (a classification of Italian beaches)	214
Mr Jared Wilson	Experience Moving Water – A Rip Current Awareness Program	231
Mr. Byung Mo Yang	An Optimal Design of Buoy Type GPS Drifter for Rip Current Measurements	232
Dr. Jooyong Lee	Application of Warning Decision Process System for Rip Current Generation at Haeundae Beach, South Korea	233
Dr Antonio De La Cruz	The Rip Current Program of Real Federación Española de Salvamento y Socorrismo (RFESS)	234

Session 6 Continued – Concurrent Papers 11:00 – 12:30 pm

DATA 3 – Drowning Risk Factors

Chair:	Dr Ana Catarina Queiroga PhD
Location:	<i>Ballroom 2</i>
Format:	<i>10mins per presentations followed by panel questions.</i>

PRESENTER	PAPER	PAGE
Ms Mable Tomusange	The burden of drowning on Lake Victoria and surrounding communities in Uganda	34
Associate Professor Richard Franklin	Who rescues who: A Queensland, Australia investigation	35
Mr Tom Mecrow	Children reporting rescuing other children drowning in rural Bangladesh: a descriptive study	36
Ms Amy E Peden	River drowning deaths: A systematic literature review of the epidemiology, risk factors and strategies for prevention	37
Dr Paddy Morgan	Autonomic conflict – cardiac arrhythmias following cold water immersion and submersion	38
Mr John Philp	Fiji: review of the drowning case from May 2012 - April 2015	39

PREVENTION 4 - Child Drowning Prevention

Chair:	Dr Michael Linnan
Location:	<i>Ballroom 3</i>
Format:	<i>10mins per presentations followed by panel questions.</i>

PRESENTER	PAPER	PAGE
Dr. Kamran Baset	PRECISE –A model of community participation in drowning prevention in Bangladesh –Implication for other Low-income countries	94
Stephen B Beerman	International Collaboration in Drowning Prevention Research Opportunities and Challenges - BASS Child Drowning Prevention Research - Stars in Global Health	95
Dr Mahrub Khanam	Can 3-year old children learn swimming in low resource settings? Experience from Bangladesh	96
Prof. Jonathan Guevarra	Drowning Prevention in the Philippines: A Pilot Project in the Northern Philippines	97
Mrs. Suchada Gerdmongkolgan	Evolution of the Child Drowning Prevention Programme in Thailand	98
Dr MD. Al-Amin Bhuiyan	Child drowning is a neglected health problem in urban Bangladesh: experiencing PRECISE	99
Dr. Md. Irteja Islam	Preliminary findings on the utilization of playpens to prevent child drowning in rural Bangladesh	100

MAYALSIAN WATER SAFETY COUNCIL DISCUSSION FORUM

Chair:	Dr Krishnan Rajam
Location:	Tekekur
Format:	A chaired discussion of the opportunities to create a Malaysian Water Safety Council

PRESENTER	PAPER	PAGE
Dr Kulanthayan Mani	Stakeholders on Drowning in Malaysia: Who Are They and What They Do?	14

Session 6 Continued- Concurrent Papers 11:00 – 12:30 pm

SWIMMING & WATER SAFETY 3 – Survival Swimming Partnerships

Chair: Mr Daniel Graham

Location: Bayan

Format: 10mins per presentations followed by panel questions.

PRESENTER	PAPER	PAGE
Asanka Nanayakkara	Life Saving and Water Safety Education Program for Children who live in rural communities in Sri Lanka	102
Mr. Syed Imtiaz Ahmed	SwimSafe: Empowering adolescents changing lives - experience from Bangladesh	103
Ms Asma Ul Hosna	Women's participation for survival swimming teaching - experiences from SwimSafe programme in Bangladesh	104
Dr. Lorraine Wilson	A Multi-Station Approach to Teaching Large Scale Swim Lessons in Resource Deficit Areas - A Pilot Project in Uganda	105
Christina Fonfe'	Ten Years of Teaching Women to Swim in Southeast Asia	106
Dr Rebecca Sindall	The challenges & successes of mixed-gender training programmes in a conservative Muslim society	107

DISASTER 1 – Rescue and Response

Chair: Mr James Vaughan

Location: Serindit

Format: 10mins per presentations followed by panel questions.

PRESENTER	PAPER	PAGE
Mr. Larry Joie Alag	Community Lifesavers Program in Santa Fe, Cebu Philippines A Proven Approach in effecting Preparedness among locals during Haiyan Disaster	329
Rear Admiral Purushottam Sharma	Flood rescue as a means to mitigate aquatic disasters	326
Mr Darren Williams	Responding to floods in low-income countries: the development of training materials for rescue and humanitarian organisations	330
Mr Adrian Mayhew	A Case Study: A third Sector UK Flood/Technical Rescue Academy to train and support volunteers for flood rescue	325
Rafael de Barros Oliveira	START method as a triage tool for aquatic disaster situations	327
Captain Thanasawat Chaiyakul	Maritime and Aquatic Life Support (MALS) a new paradigm in bridging the gap of aquatic emergency medical management in Thailand.	328

LUNCH BREAK

Session 7 – Concurrent Papers 1:30 – 3:00pm

RESCUE 4 – Lifeguard Systems

Chair: Mr Martin O'Sullivan

Location: Ballroom 1

Format: 10mins per presentations followed by panel questions.

PRESENTER	PAPER	PAGE
Mr John Martin	EQF2 Developing a European Qualification Framework for Water Safety Management for delivery in Higher Education Institutions by working in partnership	218
Mr Peter Dawes	Measuring the economic benefits of lifeguard services in the UK	219
Dr. Mohammad Jahangir Hossain	Effectiveness of SeaSafe lifeguarding in Cox's Bazar beach Bangladesh	220
PhD Ana Catarina Queiroga	Professional rescuers vs. rescue volunteers – Comparison of real and perceived skills of CPR	221
Mr Billy Doyle Mr Jonathon Webber	Fixation Errors by Lifeguards in Emergency Situations: How to improve team performance while under duress	222
Mr. Toshinori Ishikawa	Drowning and First Aid Regarding the Beach Accidents of Japan	223
Mats Melbye	Nordic guidelines for Lifeguard provision	224

DATA 4 – Drowning Risk Factors

Chair: Dr Bernadette Matthews

Location: Ballroom 2

Format: 10mins per presentations followed by panel questions.

PRESENTER	PAPER	PAGE
Ms Amy E Peden	International Tourists and Unintentional Fatal Drowning in Australia – A 10 Year Review 2002-2012	40
Dr Bernadette Matthews	Aquatic related death and injury in Victoria, Australia	41
Bernhard Abouid	Statistics on drowning in Germany: vulnerabilities and solution approaches	42
PhD Ana Catarina Queiroga	Water related deaths during 2 summer seasons in Spain	43
Dr Justine Leavy	Sinking or swimming? Connecting public health researchers and practitioners to design, implement and evaluate evidence based drowning prevention strategies.	44

PREVENTION 5 – At-Risk Populations

Chair: Dr Shayne Baker

Location: Ballroom 3

Format: 10mins per presentations followed by panel questions.

PRESENTER	PAPER	PAGE
Ms Teresa Stanley	Real and perceived water competencies among Maori and Pasifika males - a reality gap in a high-risk group?	109
Dr Carolyn Staines	Evolution of water safety culture in an historical developing community	110
Mr Michael Dunn	Drowning Prevention Education in the Community – Reaching children, families and low income groups.	111
Dr Kyra Hamilton	Stop there's water on the road! Developing theory-based messages to prevent people driving through flooded waterways	108
Mrs Vicki Hartley-Kite	RLSS UK's approach to Engaging High Risk Audiences in Drowning Prevention Messaging and Campaign Activity.	112
Ms Julia Dixon Mrs Sarah Scarce	The Aqua English Project: A Proactive Solution to Culturally and Linguistically Diverse (CALD) Drowning Statistics in Australia	113
Mrs Kathleen Finn	Bronze Medallion is an award of the Royal Life Saving Society	114

Session 7 – Concurrent Papers 1:30 – 3:00pm

SAVING OF LIVES IN DROWNING (SOLID) WORKSHOP

Chair: Prof AKM Fazlur Rahman

Location: Tekekur

Format: Implementation research for drowning prevention: learning from Bangladesh

PRESENTER	PAPER	PAGE
Dr Olakunle Alonge	Application of Implementation Research Methods to Drowning Prevention in Bangladesh: an Innovative Trial in Injury Prevention Research	116
Dr Aminur Rahman	An update on the 'Anchal' model for childhood drowning prevention in resource-limited settings	117
Dr Dewan Hoque	Integration of childhood drowning prevention to child health programs in Bangladesh	118

SWIMMING & WATER SAFETY 4

Chair: Mrs Penny Larsen

Location: Bayan

Format: 10mins per presentations followed by panel questions.

PRESENTER	PAPER	PAGE
Mr Hamid Khalafallah	Contrasting male and female drowning risks in Sudan.	119
Mr Orachai Punnaniti	From role of the searcher drowning victims lead to drowning preventing in the community, Nakhon Ratchasima Province, Thailand	120
Mr Minh Trung Doan Ms Joanne Stewart	Swim Vietnam - Building an operationally and financially sustainable survival swimming program through forging long-term partnerships in Vietnam and abroad	121
Rear Admiral Purushottam Sharma	Impact of "Swim n Survive" programme for drowning prevention in India	122
Mr Graham Buckley	Swimming for Safety: Developing a sustainable partnership platform for drowning prevention in Vietnam	123
Maj Gen Adisak Suvanprakorn	Drowning Prevention Thailand 2014	124
Miss Som Ekchaloemkiet	A Study on Differences of Survival Swimming Courses in Thailand	125

SYMPOSIUM – Hypoxic Blackout and other medical emergencies

Chair: Dr Peter Wernicki

Location: Serindit

Format: For overview please the Symposium Section Page

AFTERNOON TEA BREAK

Session 8 – Concurrent Papers 3:30 – 5:30pm

RESCUE 5 – Coastal Risk Analysis

Chair:	Mr Martin O’Sullivan
Location:	<i>Ballroom 1</i>
Format:	<i>10mins per presentations followed by panel questions.</i>

PRESENTER	PAPER	PAGE
Mr Billy Doyle	Identifying a Weakness in the Drowning Chain of Survival: Is there an assumption detection is guaranteed? Do trainee lifeguards and the public form an accurate mental model of drowning behaviour from current training methodologies?	225
Dr Jenny Smith	Towards an understanding of the differences in hazard detection and associated responses of experienced and less experienced beach lifeguards	226
Mr Will Stephens	Application of risk identification & black spot models which target behaviours that place people at risk & high risk locations	227
Rui Seabra	Wave height during the best days for beach attendance varies markedly worldwide - lessons for beach safety knowledge transfer	228
Mr Adam Weir	‘Project Blueprint’ – Researching Risk and Evidence Based Drowning Prevention Strategies	229
Dr David Szpilman	How can lifeguards apply reasoning and decision making to work more effectively? Problem identification, diagnostic strategies, and management decisions	230
Ms Shelley Dalke	Twenty years of immersion deaths in lifeguarded environments in Canada, epidemiology, policy	239

DATA 5 – Drowning Risk Factors

Chair:	Ms Amy E Peden
Location:	<i>Ballroom 2</i>
Format:	<i>10mins per presentations followed by panel questions.</i>

PRESENTER	PAPER	PAGE
Miss Alison Mahony	Drowning Deaths in Older People: A 10 year analysis of drowning in people aged 50 years and over in Australia	45
Major Antonio Schinda	Classification of drowning deaths in the river basins of Parana state: probable cause, activities and locations	46
Mr Dhaya Sewduth	Drowning Statistics in South Africa (2008-2014)	47
Mr Job Kania	2013-2015 Drowning data in Kenya	48
Dr Peter Barss	10,000 failed acute rescues in water-related immersion deaths, Canada, epidemiology & policy	49
Ms Shumona Sharmin Salam	Drowning risk environment and preventive practices in rural Bangladesh	50
Mr. Mosharaf Hossain	Randomized controlled trial on drowning prevention for parents with children aged below five years in Bangladesh	51
Mr. Takahiro Kazama	Actual Situations of Drowning of Japan	52

Session 8 Continued – Concurrent Papers 3:30 – 5:30pm

PREVENTION 7 – At-Risk Populations

Chair:	Mr Randall Cook
Location:	<i>Ballroom 3</i>
Format:	<i>10mins per presentations followed by panel questions.</i>

PRESENTER	PAPER	PAGE
Ms Rhiannon Birch	Helping Older Adults to Become Everyday Lifesavers: A social inclusion and health project for over 60's	126
Mrs Floss Roberts Mrs Jill Dowd	Don't Play in Pipes and Drains: How to target a campaign for a high risk drowning location/environment	127
Ms Jennifer Schembri-Portelli	A Vertical Perspective on Water Safety – Addressing effective drowning prevention strategies for people aged 55 years and over.	128
Ms. Rebecca Boyd	Community Outreach Rescue Program: Utilizing Partnerships to Develop Opportunities for Youth At-Risk	129
Miss Kristal Grainger	The Royal Life Saving Swim and Survive Fund Initiative: Reducing Barriers to Participation in Water Safety Education	130
Stacey Willcox-Pidgeon	Is the message getting across? Taking surf safety education to youth and coastal visitors in New South Wales, Australia.	131
Dr Julie Andronaco	Risk perception as a mechanism to inform drowning prevention in young males	132
Dr Shayne Baker	A Response to Inland Drowning Research: An Educational Approach.	133
Mrs Kate Higginbotham	At risk populations – bringing the beach to them	134
Dr Rebecca Sindall	A discussion on gender roles in drowning prevention in conservative Muslim society	135

PARTNERSHIPS 3 - Programs

Chair:	Dr Shayne Baker
Location:	<i>Tekekur</i>
Format:	<i>10mins per presentations followed by panel questions.</i>

PRESENTER	PAPER	PAGE
Mr Mark Lindsay	The establishment of a water safety policy body.	289
Mr John Philp	How constant engagement leads to the successful change & transformation in recognising the need for drowning prevention initiatives in Fiji.	290
William Koon	Partnerships of Presence: Unlocking Local Networks With International Lifeguards in Chile	291
Dr. Joost Bierens	The state of lifesaving in 2015: an analysis based on the content of the revised Drowning book.	292
Rear Admiral Francisco Braz da Silva	Role of “Instituto de Socorros a Náufragos” (ISN) in the development of lifesaving within the Portuguese-speaking countries	293
Mr Lee Heard	Building human resource - Managing and sustaining a volunteer workforce in the 21st Century.	294
Mr. Alexander Hamilton Mwaipasi	Developing Drowning Prevention Cooperation in a Low Income Country: A Case Study From Tanzania	295
Dr. Andrew Schmidt	Keep It Local: Micro financing Front-Line Drowning Prevention Campaigns	296
Kevin Paes	Canadian Red Cross and Chinese Red Cross-Partnering to Leverage Domestic Best Practices in Water Safety Abroad	297

Session 8 Continued – Concurrent Papers 3:30 – 5:30pm

PREVENTION 11 – Aquatic Safety Programs

Chair: *Mr Nigel Taylor*

Location: *Bayan*

Format: *10mins per presentations followed by panel questions.*

PRESENTER	PAPER	PAGE
Dr David Szpilman	POOL + SAFE – a successful drowning prevention campaign in Brazil	156
Jill White	Update on progress of the U.S. Model Aquatic Health Code (MAHC): a template for data-driven, knowledge based risk reduction guidelines	157
Mr Nick Mulcahy	Aquatic risk management and evidence-based decision making: Hunua Falls, Auckland region, New Zealand	158
Mr Wai Meng Tam	Reducing Drowning Risk Through Inland Water Venue Selection – A Study Of Water Sports In Marina Reservoir	159
Francois Lepine	The Splash Patrol: promoting safety as a shared responsibility in aquatic facilities	160
Cecelia Chow	An innovative approach to drowning prevention in public & home pools using video analytics.	161
Mr Garry Seghers	Understanding Risk	162

SYMPOSIUM – Basic Rescue and CPR in low resource settings

Chair: *Justin Scarr*

Location: *Serindit*

Format: *For overview please the Symposium Section Page*

DAY TWO POSTER DISPLAYS (FROM 8:30AM)

Location: *Poster Foyer*

PRESENTER	POSTER	N ^o	PAGE
Shelley Dalke	Immersion deaths of indigenous peoples in Canada – epidemiology, culture, prevention	1	177
Dr Martin Barwood	Thermal perceptions and breathlessness on cold water immersion; could these sensations drive instinctive behaviour?	2	182
Ms. Elizabeth Bennett	New science on boating behavior and risk	3	175
Ms. Elizabeth Bennett	Can you really swim? Study	4	176
M. ABDELKADER CHEKROUNE	Rescue in Algeria: actions and perspectives	5	262
Prvention Ah Ra Cho	An Effectiveness Survey Study of Marine Safety Experience Education Program in Reducing Vessel-Related Fatality	6	180
Michael Fonfe'	Drowning in Tourism ~ An Industry Opportunity to Lead the World	7	302
Mrs. Suchada Gerdmongkolgan	Evaluation of Measures for the Management of High-risk Water Sources in Communities for Child Drowning Prevention in Thailand	8	185
Mr Shaun Hudson	A Strategic Approach to the Placement of Support Operations in New South Wales	9	260
Kheatniyom Kwanjaiphuththisa	Khanongpra safety concern not drowning.	10	184
Mr Richard Lamburn	Turbidity of Pool Water, An issue for Drowning Prevention in Wet Leisure Facilities?	11	265
MD, PhD Claus-Martin Muth	Search and rescue dogs – very useful assistants even in water rescue	12	258
Asanka Nanayakkara	Life Saving and Water Safety in Sri Lanka	13	303
Gridsana Pimpanon	Horizontal Manned Parbuckling Method- an improvised technique for man overboard.	14	263
Major Antonio Schinda	Drowning prevention measures directed at a river basin: a new strategy	15	181
Mr Garry Seghers	Making Open Water Swimming Safe	16	186
Leonardo Springer	Lifeguard rescue equipment operation in Bathing Zones	17	264
Dr David Szpilman	Analyses of drowning deaths in Brazil over the last 34 years reveal a sharp decline	18	60
Dr David Szpilman	Water safety certification for swimming pools – A new Brazilian proposal	19	179
Dr David Szpilman	Quick response to maritime and riverine emergencies in Brazil - a diagnosis of maritime services	20	261
Dr David Szpilman	Pool water safety signage – A Brazilian proposal	21	178
Dr David Szpilman	Pool lifeguards' certification – how is the education process in Brazil?	22	259
Dr David Szpilman	National Security Force's role in mitigation of aquatic disasters in Brazil	23	339
Dr Tomasz Zalewski	IT tool for measuring the effectiveness of preventive measures	24	183

#

DAY TWO – FRIDAY 6TH NOVEMBER 2015

Session 9 – Concurrent Papers 9:00 – 10:30am

RESCUE 6 – Aquatic Risk Management

Chair: Mr Martin O’Sullivan

Location: Ballroom 1

Format: 10mins per presentations followed by panel questions.

PRESENTER	PAPER	PAGE
Roy Fielding	The Model Aquatic Health Code - Lifeguarding and Bather Supervision	235
Mr Caleb Brown	Do pool Lifeguards use rescue equipment in real rescues?	236
Prof Alexandre Tadeia	Type of more frequently accidents in Portuguese indoor swimming pools	237
Mr Daniel Graham Mr Clive Holland"	A low resource pool lifeguard programme for Low and Middle Income Countries	238
Mrs Nichole Edsall	Raising the Bar in Australian Water Safety - The City of Blacktown, with an electronic drowning detection system and community awareness	240
Pascal Lebihain Elie Vignac	Considering an organizational and systemic approach to understand in-depth drowning accidents in public swimming pools.	241

SYMPOSIUM - DATA

Chair: Associate Professor Richard Franklin

Location: Ballroom 2

Format:

PRESENTER	PAPER	PAGE
test		

PREVENTION 8 – Programs

Chair: Tan, Mr. Richard Ming Kirk

Location: Ballroom 3

Format: 10mins per presentations followed by panel questions.

PRESENTER	PAPER	PAGE
Ms Terisha Veeran-Colton	Investigating the perception of risk and coping strategies of rock-based anglers' from Victoria Australia	137
John Leech	How Ireland is tackling drowning in the nation’s most hazardous workplace – the Commercial fishing sector	138
Ms Shelley Dalke	Immersion deaths among boaters wearing a flotation device: epidemiology and prevention, Canada 1991-2010	139
Mr Roger Sweeney	Maximizing media coverage - practical tips to get your water safety message promoted by the media	140
Dr Peter Barss	Twenty years of PFD non-wearing and wearing in Canada: 2000 lives and 4 billion dollars lost	141

SYMPOSIUM

Coordinating Drowning Prevention and National Water Safety Plans; Exploring the WHO Global Report on Drowning Key Recommendations

Chair: Mr Justin Scarr

Location: Tekekur

Details: For overview please see the Symposium Section Page

Session 9 Continued – Concurrent Papers 9:00 – 10:30am

SWIMMING & WATER SAFETY 6 - Programs

Chair: Ms Jennifer Schembri-Portelli

Location: Bayan

Format: 10mins per presentations followed by panel questions.

PRESENTER	PAPER	PAGE
Ms Rebecca Gawn Mrs Floss Roberts	Northern Territory Water Safety Awareness Program: 10 years of making a difference in drowning prevention in children under 5	142
Raynald Hawkins Francois Lepine	A Safe Pool, A Pefect Swim – an awareness campaign that targets residential pool owners	143
Ms Kate Simpson	The 'Everyday Lifesaver' App - Using digital game-based learning to teach adolescents water safety and emergency response	144
John Leech	Primary Aquatics Water Safety (PAWS) Programme	145
Mrs Lisa Smith	Junior Lifeguard Academy	146
Mrs Ceri Weeks	AUSTSWIM in India: Challenges in swimming and water safety teacher training and program implementation	147
Mr Jon Glenn	ASA & RNLI Partnership: Water Safety and Self Rescue	148

DISASTER 2 – Resilience and Preparedness

Chair: Mr James Vaughan

Location: Serindit

Format: 10mins per presentations followed by panel questions.

PRESENTER	PAPER	PAGE
Jayne MacDougall	Disaster Resilience - A project to enhance Hotel Resilience and safer destinations for tourism.	332
Mr Icaro Greinert	Drowning mitigation in swift water situation at Parana State, Brazil	335
"Professor Girlie Miguel		
Doctor/Professor Cesar Miguel"	National Alliance for Aquatic Safety & Disaster Preparedness (NAASDIP): A Civil Society Organization for Drowning Prevention Capacity Building in Mindanao, Philippines	336
Ms Sarah Anderson	Tsunami: The Ultimate Guide — A collaborative approach to online community education and disaster resilience	333
RSW Danielle Saique	Child’s Rights to Drowning Prevention and Participation in Disaster Risk Reduction Management	334
Mr Andrew Gissing	Utilising a continuum of measures to reduce flood fatalities	331
Mr Jun Abe	Personal Tsunami Survival Story and Proposal of the “UitematPe” (“Float and Wait”) Method for Drowning Prevention	337

MORNING TEA BREAK

Session 10 - Concurrent Papers 11:00 - 12:30pm

RESCUE 7 – Lifeguard Systems

Chair: Mr. Richard Ming Kirk Tan

Location: Ballroom 1

Format: 10mins per presentations followed by panel questions.

PRESENTER	PAPER	PAGE
Mrs Kathleen Finn	Safeguard Program is a training that provides safety supervision for guardians who accompany groups of young people to aquatic environments.	114
David Jephson	When you lose a " Volunteer Rescue Member" what needs to change!	243
Mr Dhaya Sewduth	Using Lifesaving / emergency services social media networks to keep track of and prevent drowning in the greater Durban area.	244
Dr. Dirk Bissinger	EQF – A cross-national approach to harmonize Lifesaving and Lifeguarding Education in European Federations	245
MD, PhD Claus-Martin Muth	Supraglottical airway devices for rescue swimmers – is it feasible	246
Mr. Carl Martinez	Surf–lifeguard physical–fitness testing: a survey of standards of ILS Federations	247
Mr. Henry Reyes	Lifeguard Medical Team Interventions in Ecuador, Nicaragua, and Dominican Republic During Semana Santa and Carnaval 2011-2015	248

RESEARCH PARTNERSHIPS WORKSHOP

Chair: Dr. (PhD) Ana Catarina Queiroga & Assoc Prof Richard Franklin

Location: Ballroom 2

Format: Open Discussion of opportunities and issues to partner in research

PREVENTION 10 - Programs

Chair: Dr Harald Vervaecke PhD

Location: Ballroom 3

Format: 10mins per presentations followed by panel questions.

PRESENTER	PAPER	PAGE
Tessa Clemens	Barriers controlling access to private backyard pools and drowning rates in children.	149
Mrs. Janya Malingam	Child Drowning Prevention: From Knowledge to Practice Experienced Implementation at Thumbon Nuanual, Sanom District, Surin Province, Thailand	155
Mrs Saluckjit Sakulrak	Situations of child drowning and Prevention by MERIT MAKER team in Surin Province	150
Mr. Conrad Foote	Community perception of childhood drowning and prevention in a semi-urban district of Cambodia: A qualitative study	151
Mr. Kelly Carter	Defining Caregiver Guidelines And Supervision Requirements For Children Around Water	152
Mr. Mosharaf Hossain	Is there associated with social-demographic, environmental and caring factors and children drowning deaths in Bangladesh?	153
Somphrach Suwwanee	The Proactive Precautions against Drowning Taken by the Volunteer Networks in Nakhon Ratchasima Province	154

Session 10 Continued- Concurrent Papers 11:00 – 12:30pm

RESCUE 8 – Surfer and Beach Programs

Chair: *Mr Peter Davis*
Location: *Tekekur*
Format: *10mins per presentations followed by panel questions.*

PRESENTER	PAPER	PAGE
Dr Rob Brander	Surfers as bystander rescuers in Australia	249
MD Hylmar Elsenga	Advanced Surfing Life Support: a new course training health care professionals in drowning prevention and rescue in an aquatic setting	250
Juan Achutegui	Transfer of best practices from big wave surfing to rescue services	251
MD Ingvar Berg	Drowning Prevention by the Education of Surfers; Drowning Education's Next Wave?	252
MSc Olga Marques	SURF SAVE – extending the concept from Brazil to Portugal	253
Dr Jeff Wilks	Beach Safety Education for Primary School Students: Benefits for students, society and beach safety programs	254
Stacey Willcox-Pidgeon	New Zealand youth surf safety knowledge, attitudes, and behaviours	255

SYMPOSIUM - Survival swimming – challenges and opportunities; exploring the WHO Global Report on Drowning Key Actions

Chair: *Justin Scarr*
Location: *Bayan*
Details: *For overview please the Symposium Section Page*

LUNCH BREAK

Session 11 – Closing Plenary 1:30 – 3:00pm

Is there a case for a Global Drowning Prevention Partnership? Exploring the WHO Global Report on Drowning Key Recommendations

Chair: Mr Justin Scarr

Location: Grand Ballroom

TITLE:	Is there a case for a Global Drowning Prevention Partnership
Description:	<p>The World Health Organisation released the first <i>Global Report on Drowning (GRD) – preventing a leading killer in Geneva</i>, in 2014. Among the key recommendations WHO calls for a global partnership for drowning prevention to be established.</p> <p>As a result of a stakeholder workshop, a working group has been formed to explore the feasibility and appropriateness of such a Partnership.</p> <p>The Global Report on Drowning advances the partnership topic, and posits that such a partnership serve as a policy and implementation leadership community for the issue of drowning prevention, and achieve a great deal to catalyse and advance work on drowning prevention.</p> <ul style="list-style-type: none"> • Setting priorities for further development of the drowning prevention field; • Technical exchange; • Improvements in gathering drowning mortality and morbidity data; • Development of guidance for drowning prevention for government; • Raising the profile of drowning prevention in relevant political and public health discussions. <p>This symposium will explore the case for and against establishing a global partnership. Speakers will draw on literature and experiences from other Global Health and Development Partnerships, to explore the feasibility and actions required to achieve this recommendation.</p>
Link to Global Report on Drowning:	Links to key recommendation to establish a global partnership to reduce drowning
Objectives:	<p>The Global Drowning Prevention Partnership Symposium objective are to:</p> <ul style="list-style-type: none"> • Explore the feasibility of establishing a global health partnership • Explore relevant experiences from other sectors • Discuss the possible models, roles and responsibilities, mechanisms and outcomes a partnership may deliver • Outline the case for and against such a partnership • Debate next-steps in implementation of WHO’s recommendation
Facilitator:	Mr Justin Scarr
Introduction: (5min)	Mr Justin Scarr Symposium Objectives
Speaker 1: (10min)	Why did WHO make this recommendation? Dr David Meddings
Speaker 2: (10min)	What would be the objectives of such a partnership, and what resources would be required? What are the barriers? Dr Steve Beerman
Speaker 3: (10min)	Would a Partnership make any difference in Low and Middle Income Nations? Dr Aminur Rahman
Speaker 4: (10min)	Framework considering the Partnership Two models, one high resource and one low resource? Are they feasible? Justin Scarr
Discussion: (30min)	<p>All speakers move to the panel, question session facilitated from the floor and across the panel.</p> <p>Joining the Panel</p> <ul style="list-style-type: none"> • Dr. Olive Kobusingye • Mr Andrew Gissing
Summary: (10min)	Summary of panel member views.
Draft Statement:	To be drafted

AFTERNOON TEA BREAK

Session 12 – Closing Ceremony 3:30 – 5:00pm

Chair: Justin Scarr
Location: Grand Ballroom

PRESENTER	PAPER	PAGE
Mr Dan Graham	Chair - Rescue Theme	Outcomes from the Rescue Theme
Assoc Prof Richard Franklin	Chair – Data Theme	Outcomes from the Data Theme
Dr. (PhD) Ana Catarina Queiroga	Co-Chair – Prevention Theme	Outcomes from the Prevention Theme
Mr Norm Farmer	Co-Chair – Partnerships Theme	Outcomes from the Partnership Theme
Dr Peter Wernicki	Chair – Treatment Theme	Outcomes from the Treatment Theme
James Vaughan	Co-Chair – Disaster Theme	Outcomes from the Disaster Theme
Norm Farmer	Program Coordinator	Announces Prizes for Best Paper, Best Poster, People’s Choice Awards
Mr Dale Miller	Executive Director Lifesaving Society - BC & Yukon	Introducing World Conference on Drowning Prevention 2017
Mr Chien Che'ng Lim	President Life Saving Society Malaysia	Closing Address Life Saving Society Malaysia
Mr Graham Ford	President International Life Saving Federation	Closing Address International Life Saving Federation

DAY THREE POSTER DISPLAYS (FROM 8:45AM)

Location: *Poster Foyer*

PRESENTER	POSTER	N ^o	PAGE
Mr André Alves	Endemic study of drowning deaths in the state of Pernambuco- Brazil: support to implement more effective public prevention policies.	1	193
Mr André Alves	Efficiency of protection laws against sharks attacks in the state of Pernambuco - Brazil	2	268
Dr. Stathis Avramidis	"Gone in 30 Seconds" - Part 5: Decoding the Circumstances of Drowning in Cinematography	3	197
Dr. Stathis Avramidis	"Gone in 30 Seconds" - Part 4: Decoding the Location of Drowning in Cinematography	4	198
Dr. Stathis Avramidis	"History Lessons" - Part 3: Decoding the Causes of Fatal Drowning to Historical Figures	5	200
Dr. Stathis Avramidis	"Gone in 30 Seconds" - Part 3: Decoding the Drowning Victim in Cinematography	6	199
Dr Peter Barss	Flotation non-wearing and wearing in occupational boating fatalities, Canada 1991-2010	7	62
Dr Ackadech Boonyen	Strong Community like a Life Jacket Protecting a Child from Drowning, in Prang Ku District, Sisaket Province, Thailand	8	196
Kirana Iamsomang	Preparing volunteers and beach shops to water safety for tourists on the beach.	9	304
William Koon	Exploring the Use of Internet Tools for Drowning Prevention, Rescue, and Treatment	10	29
Yupa Luachalard	The vaccine protects children from drowning KaoKaew Somrongong Thap District Surin	11	191
Mats Melbye	Drowning prevention through swimming education	12	194
Mats Melbye	A drowning preventative definition of swimming ability	13	195
"Dr (PhD) Paula Xavier			
BSc Rodrigo Gomes Leal"	Mobile Centre of Coordination and Pre-hospital Care: better working conditions, greater productivity, and increased efficiency of assistance	14	321
PhD Ana Catarina Queiroga	Establishment of the International Drowning Research Alliance – IDRA	15	61
Mônica Rodrigues	Drowning prevention education in elementary schools	16	192
Mrs Venetia Vichou	Human Aquaticity - Definition of the term and its characteristics - Aquaticity Evaluation Test	17	189
Prof. Sanjeev Sharma	Effective Prevention Measures for Reducing Drowning Cases in India	18	188
Maj Gen Adisak Suvanprakorn	"Mae Shee Loy Nam" No more drown.	19	187
Dr David Szpilman	A Brazilian water safety policy for open water swimming races	20	266
Dr David Szpilman	Rescue crafts operators – reinforcing the use of personal protective equipment	21	267
Felix Uzor	Abstract on Drowning Prevention by Felix Fitness Foundation	22	190
Graduate Student Yoon Jeong Yeon	Performance Measures for Rip Current Forecasting by Comparison with CCTV Images	23	270

SYMPOSIUM 1

Hypoxic Blackout, Shallow Water Blackout – epidemiology, terminology, prevention

TITLE:	Hypoxic Blackout, Shallow Water Blackout– epidemiology, terminology, prevention
Chair:	Dr Peter Wernicki
Location:	Serindit
Time:	Thursday 5 th November – Session 7 from 1:30 – 3:00PM
Description:	<p>This symposium will explore a range of medical conditions linked to drowning. The most talked about cause in recent years has been what the sector previously called Shallow Water Blackout' or 'hypoxic blackout'. These terms have been increasingly used in the media, by advocates and industry to describe a loss of consciousness under water caused by a lack of oxygen to the brain following breath-holding. This symposium will explore some key questions about shallow water blackout:</p> <ul style="list-style-type: none"> • Is that the correct term? • What does it mean? • How common is it? • Who is most at risk? • What is industry doing in response? • And what should be doing? <p>The symposium will discuss a range of medical conditions linked to drowning.</p>
Objectives:	<p>The Underwater Blackout Symposium Objective are to:</p> <ul style="list-style-type: none"> Develop Prevention Methodologies for Underwater Blackout Increase knowledge of the extent of the problem Develop a WCDP conference statement regarding this problem
Introduction: (5min)	Dr Peter Wernicki
Speaker 1: (15min)	Further insights from Shallow water blackout - risks and prevention (page 312) Assoc Prof Richard Franklin
Speaker 2: (15min)	Intentional Hyperventilation prior to breathe hold and submersion – hypoxia or arrhythmia as the killer? (Page 311) Dr Paddy Morgan
Speaker 3: (10min)	Thoughts on Shallow Water Blackout Dr Kevin Moran
Speaker 4: (10min)	Thoughts on Shallow Water Blackout Dr Roy Fielding
Discussion: (30min)	All speakers move to the panel, question session facilitated from the floor and across the panel. Joining the Panel
Summary: (5min)	Summary wrap of panel members.
Draft Statement:	To be drafted

SYMPOSIUM 2

Safe Rescue and CPR in low resource settings – challenges and opportunities; Exploring the WHO Global Report on Drowning Key Actions

Supported by Laerdal Medical

TITLE:	CPR in low resource settings – challenges and opportunities; Exploring the Global Report's Key Actions
Chair:	<i>Mr Justin Scarr</i>
Location:	<i>Bayan</i>
Time:	<i>Thursday 5th November – Session 8 from 3:30 – 5:00PM</i>
Description:	<p>The World Health Organisation released the first Global Report on Drowning (GRD) – preventing a leading killer in Geneva, in 2014. Among the Key Actions WHO calls for:</p> <p style="padding-left: 40px;">8 - Train bystanders in safe rescue and resuscitation</p> <p>Drowning prevention researchers, policy makers and practitioners don't need to be convinced of the value of CPR in a drowning emergency. Early resuscitation improves survival outcomes, reduces neurological damage in those rescued from immersion.</p> <p>Increasingly in high resource settings, compression only CPR is being promoted for untrained first aiders witnessing cardiac arrests, with limited reference to the importance of ventilation for drowning victims who have no pulse and are not breathing.</p> <p>This symposium will explore the Global Report's call for the training of bystanders in safe rescue and resuscitation. Survival swimming, what does it mean, how safe is it and how exactly do we go about national population based systems, particularly in areas with few pools, no instructors, and limited understanding of the risks involved.</p>
Link to Global Report on Drowning:	<p>Links to GRD Key Actions:</p> <ol style="list-style-type: none"> 4. Coordinate drowning prevention efforts with those of other sectors and agendas. 5. Develop a national water safety plan.
Objectives:	<p>The Symposium objectives are to:</p> <ul style="list-style-type: none"> • Explore insights into the risks, scale and challenges of such programmes • Explore insights from low resource settings • Explore insights from high resource settings • Discuss the challenges of population based survival swimming programs • Debate next-steps in implementation of WHO's recommendation
Facilitator:	<i>Mr Justin Scarr</i>
Introduction: (5min)	<i>Mr Justin Scarr</i> Symposium Objectives
Speaker 1: (10min)	Lessons from - Willingness to administer mouth-to-mouth ventilation in a first response program in rural Bangladesh (Mecrow et al. BMC International Health and Human Rights) & Children reporting rescuing other children drowning in rural Bangladesh a descriptive study(Page 36) <i>Mr Tom Mecrow</i>
Speaker 2: (10min)	CPR is it retained and it is used in a rural setting in Bangladesh <i>Dr Aminur Rahman</i>
Speaker 3: (10min)	Insights from - A low resource pool lifeguard programme for Low and Middle Income Countries (page 238) and other activities. <i>Mr Dan Graham</i>
Speaker 4: (10min)	Training in basic rescue in the Asia-Pacific Region <i>Norm Farmer</i>
Discussion: (30min)	All speakers move to the panel, question session facilitated from the floor and across the panel. Joining the Panel <ul style="list-style-type: none"> • <i>Dr Mike Linnan</i>
Summary: (10min)	Summary wrap of panel members.
Draft Statement:	To be drafted

SYMPOSIUM 3

Symposium: Data – What is it good for?

TITLE:	Symposium: Data – What is it good for?
Chair:	Associate Professor Richard Franklin
Location:	Ballroom 2
Time:	Friday 5 th November – Session 9 from 9:00 – 10:30PM
Description:	<p>Understanding data requirements for the prevention of drowning is essential if we are to address the public health challenge of reducing drowning deaths globally. There is a wide range of data which can be collected, however depending on what you want to use the data for and what you are targeting, from a prevention perspective will influence the data you collect.</p> <p>Many will be familiar with the international classification of disease (ICD) coding, some will have heard of the Utstein model and other will be aware of drowning chain of survival. Each of these represents a method in which data can be used to explore drowning. In this symposium we will briefly explore these models and ask the question - how do they help or hinder our understanding of drowning and what potential does the data provide us with to prevent drowning. In the conference you will hear from a number of presenters about drowning in their country.</p> <p>In this interactive, fast paced symposium we will hear from a range of speakers about their drowning data, how they are using it, strengths and limitations of their data. We will explore from three countries what data they collect and ask the questions 'how are you presenting and using your data?', 'what data do you collect?', 'what are the steps along the way?'</p> <p>At the end of the session you will walk away with a better understanding of drowning data, it uses and some of the challenges. This symposium is designed to explore drowning data from the perspective of 'how can it be used for prevention' and what can we be doing as a group to improve what we are doing at an international level.</p>
Link to Global Report on Drowning:	<p>Links to GRD Key Actions:</p> <ul style="list-style-type: none"> • Address priority research questions with well-designed studies.
Objectives:	<p>The Symposium objectives are to:</p> <ul style="list-style-type: none"> • Explore drowning data from the perspective of 'how can it be used for prevention' and what can we be doing as a group to improve what we are doing at an international level.
Introduction:	<p>Symposium Objectives Assoc Prof Richard Franklin</p>
Speaker 1:	<p>Why is there a need for drowning data Ms Barbara Byers</p>
Speaker 2:	<p>Utstein Model / Drowning chain of survival – how do these help / hinder our understanding of drowning Dr Joost Bierens</p>
Speaker 3:	<p>Example 1 – drowning data Australia Ms Amy Peden</p>
Speaker 4:	<p>Example 2 – drowning data Brazil Dr David Szpilman</p>
Speaker 5:	<p>Example 3 – drowning data Bangladesh Prof AKM Fazlur Rahman</p>
Discussion: (30min)	<p>All speakers move to the panel, question session facilitated from the floor and across the panel. The panel will discuss a range of challenges:</p> <ul style="list-style-type: none"> • Challenge 1. What to collect – prevention vs rescue vs treatment • Challenge 2. Definitions • Challenge 3. Data collection - Quality vs quantity vs cost vs utility
Summary: (10min)	<p>Summary wrap of panel members.</p>
Draft Statement:	<p>To be drafted</p>

SYMPOSIUM 4

TITLE:	Coordinating Drowning Prevention and National Water Safety Plans, is it really that simple?
Chair:	<i>Mr Justin Scarr</i>
Location:	<i>Tekekur</i>
Time:	<i>Friday 6th November – Session 7 from 9:00 – 10:30AM</i>
Description:	<p>The World Health Organisation released the first Global Report on Drowning (GRD) – preventing a leading killer in Geneva, in 2014. Among the Key Actions WHO calls for:</p> <ol style="list-style-type: none"> 8. Coordinate drowning prevention efforts with those of other sectors and agendas. 9. Develop a national water safety plan. <p>The multisectoral nature of Drowning demands increased coordination and collaboration across the sectors that influence drowning risk and are therefore critical but perhaps unaware of their role in its prevention. What does it mean, which are these other sectors and if successful – what might the drowning prevention sector look like in 10 years?</p> <p>The Global Report asserts that all countries can benefit from a national water safety plan. WHO provides a set of strategic principles and suggests seven steps. The principle is clear but is it really that simple?</p> <p>This symposium will explore insights from those with and without national water safety plans. It will explore existing national coordinating mechanism, and discuss the challenges and opportunities of engaging those not yet aware that they might be linked to drowning and more importantly its prevention.</p>
Link to Global Report on Drowning:	<p>Links to GRD Key Actions:</p> <ol style="list-style-type: none"> 10. Coordinate drowning prevention efforts with those of other sectors and agendas. 11. Develop a national water safety plan.
Objectives:	<p>The Symposium objectives are to:</p> <ul style="list-style-type: none"> • Explore insights into existing national water safety plans • Explore insights into existing national coordinating mechanisms • Explore insights from low and middle income contexts • Discuss the challenges of coordination in low resource or complex settings • Debate next-steps in implementation of WHO's recommendation
Facilitator:	<i>Mr Justin Scarr</i>
Introduction: (5min)	<i>Mr Justin Scarr</i> Symposium Objectives
Speaker 1: (10min)	Insights from - Creating the National Drowning Prevention Plans, Canadian approach to this opportunity for impact. (Page 277) - Dr Steve Beerman
Speaker 2: (10min)	Insights from - the Development of a National Strategy for Drowning Prevention for the UK by the National Water Safety Forum (NWSF). (Page 276) - Mrs Vicki Hartley-Kite
Speaker 3: (10min)	Insights from - Development and implementation of a water safety and drowning prevention model: A case study Sri Lanka. (Page 275) - Mr Sanath Wijayaratne
Speaker 4: (10min)	'How to create the conditions for development, adoption and implementation of a drowning prevention strategy' - Mr Steve Wills
Discussion: (30min)	<p>All speakers move to the panel, question session facilitated from the floor and across the panel.</p> <p>Joining the Panel</p> <ul style="list-style-type: none"> • Mr Will Stephens
Summary: (10min)	Summary wrap of panel members.
Draft Statement:	To be drafted

SYMPOSIUM 5

Survival swimming – challenges and opportunities; Exploring the WHO Global Report on Drowning Key Actions

TITLE:	Survival swimming – challenges and opportunities in implementing the Global Report’s Key Action
Chair:	<i>Mr Justin Scarr</i>
Location:	<i>Bayan</i>
Time:	<i>Friday 6th November – Session 9 from 11:00 – 12:30PM</i>
Description:	<p>The World Health Organisation released the first Global Report on Drowning (GRD) – preventing a leading killer in Geneva, in 2014. Among the Key Actions WHO calls for:</p> <p>8. Teach school-age children basic swimming, water safety and safe rescue skills</p> <p>The Global Report cites studies that show that teaching children basic swimming, water safety and safe rescue skills reduces drowning. WHO reinforces the need to clarify best practice, and calls for a systematic and carefully monitored replication of such programmes. WHO states that to replicate these results in other resource-poor settings with high drowning risk, such programmes should include the following; a structured, safety-tested curriculum, a safe training environment, trained instructors and student-instructor ratios established for safety.</p> <p>To many the race has started, and in other nations programs are under threat While governments in Vietnam, Thailand, Bangladesh all released policies encourages the teaching of survival swimming in schools, advocates in Australia, New Zealand, UK all reminisce about past generations who benefited from well-funded population based programs.</p> <p>This symposium will explore the theme of survival swimming. What does it mean, how safe is it and how exactly do we go about national population based systems, particularly in areas with few pools, no instructors, and limited understanding of the risks involved.</p>
Link to Global Report on Drowning:	<p>Links to GRD Key Actions:</p> <p>8. Teach school-age children basic swimming, water safety and safe rescue skills</p>
Objectives:	<p>The Symposium objectives are to:</p> <ul style="list-style-type: none"> • Explore insights into the risks, scale and challenges of such programmes • Explore insights from low resource settings • Explore insights from high resource settings • Discuss the challenges of population based survival swimming programs • Debate next-steps in implementation of WHO’s recommendation
Facilitator:	<i>Mr Justin Scarr</i>
Introduction: (5min)	<i>Mr Justin Scarr</i> <i>Symposium Objectives</i>
Speaker 1: (10min)	<i>Insights from - "Swimming Skill" to "Water Competence": Towards a more inclusive drowning prevention future (Page 69)</i> <i>Dr Kevin Moran</i>
Speaker 2: (10min)	<i>The level of swimming skill necessary to protect children in LMICs from drowning (Page 68)</i> <i>Dr Michael Linnan</i>
Speaker 3: (10min)	<i>Acquisition of self-survival and rescue skills in a rural community of Tanzania (Page 101)</i> <i>Mr Tom Mecrow</i>
Speaker 4: (10min)	<i>Insights from - Swim Vietnam - Building an operationally and financially sustainable survival swimming program through forging long-term partnerships in Vietnam and abroad (page)</i> <i>Mr Minh Trung Doan and Ms Joanne Stewart</i>
Discussion: (30min)	<p>All speakers move to the panel, question session facilitated from the floor and across the panel.</p> <p>Joining the Panel</p> <ul style="list-style-type: none"> • Ms Kate Simpson
Summary: (10min)	<i>Summary wrap of panel members.</i>
Draft Statement:	<i>To be drafted</i>



Building on the knowledge and relationships gained in Penang, Lifesaving Society Canada now invites you to continue the learning and sharing at the ILS World Conference on Drowning Prevention 2017 in Vancouver, Canada.

The culmination of research, experience and strategies to help reduce the burden of drowning throughout the world that is evident at each WCDP contributes toward our mutual goal of saving lives. Lifesaving Society Canada has a long and proud 100+ year history of drowning prevention and continues to learn more at each WCDP.

Now it's Canada's turn to host this global conference in the Americas and provide a venue for further focus on this important public health issue. Work toward addressing the recommendations contained in the World Health Organization's Global Report on Drowning will be a major theme of this conference with much work to be done over the next two years.

Vancouver is a dynamic, multicultural city set in a spectacular natural environment. As well as an incredible setting, Vancouver offers an amazing array of hotels, restaurants, attractions, outstanding arts and culture, wonderful shopping and warm friendly people. A highly-accessible transit system and a compact, walkable downtown make it easy and eco-friendly for delegates to get around.

With direct flights from many US, Asian, European and Latin American destinations, Vancouver is easy to get to, easy to get around and hard to forget. It's halfway between Europe and Asia Pacific, and less than 40 km from the U.S. border. After arriving at the award-winning Vancouver International Airport, travelling downtown to the conference hotel (Westin Bayshore) is as easy as taking a taxi, limo or the Canada Line rapid transit system, which takes less than 30 minutes. Once settled at the hotel, you're a 5 minute walk from the 1,000 acre natural beauty and beaches of Stanley Park and a 90-minute drive from North America's top ski resort.

Vancouver is consistently rated as the top meeting destination in North America as well as being ranked as the most liveable and healthiest city. Its unbeatable location makes it the perfect gateway to the rest of Canada and beyond, allowing you to enjoy a wide range of outstanding opportunities for pre and post-conference travel. A wide range of reasonably priced and high quality accommodations are also available.

The official languages of Canada are English and French, but a blend of international cultures is why Vancouver is acclaimed as such a welcoming and colourful destination, boasting an unprecedented range of activities and attractions.

Lifesaving Society Canada looks forward to welcoming you to Vancouver in 2017 and providing the perfect setting for information exchange and camaraderie to ensure we . . .

'Share Globally, Prevent Locally.'

**International Life Saving Federation
World Conference on Drowning Prevention**

Every two years, the International Life Saving Federation brings together its member organisations and the world's leading researchers, practitioners and policy makers to present and discuss the latest research and thinking in drowning prevention, lifesaving, rescue, water safety, lifesaving sport and related fields at the World Conference on Drowning Prevention (WCDP).

**International Life Saving Federation
World Conference on Drowning Prevention 2015**

© World Conference on Drowning Prevention 2015

This work is copyright. It may be reproduced in whole or part for study or training purposes subject to the inclusion of an acknowledgement of the source. It may not be reproduced for commercial usage or sale.

Reproduction for purposes other than those indicated above requires written permission from the International Life Saving Federation.

This document can be downloaded from the International Life Saving Federation Website at: www.ilsf.org

Contact Details:

For further details please contact:

International Life Saving Federation (ILS)
Gemeenteplein 26
3010 Leuven Belgium

Telephone: +32 16 89 60 60

Email: info@ilsf.org

Website: www.ilsf.org

Flickr: www.flickr.com/photos/ilsforg

Facebook: www.facebook.com/ILSForg

Google +: plus.google.com/100131167778451488323



WORLD CONFERENCE ON MALAYSIA DROWNING PREVENTION 2015

Bridging communities to prevent drowning



www.wcdp2015.org