



Day 1: Monday Morning 17 December 2018	Understanding the Context of the Heat Health Issue		
08:00 – 08:30	Registration, Breakfast & Coffee		
08:30 – 09:00	Opening and Welcome Statements <ul style="list-style-type: none"> - Joy Shumake-Guillemot, WHO/WMO Climate and Health Joint Office - Chris Webster, Faculty of Architecture, University of Hong Kong - Linwei Tian, School of Public Health, University of Hong Kong - Chi-Ming Shun, Director of Hong Kong Observatory - Elena Manaenkova, Deputy Secretary-General, World Meteorological Organization 		Plenary
09:00 – 10:15	Keynote Presentations Moderator: Donald Li , President of the World Organization of Family Doctors		Plenary
	Heat-related Health Impacts in Subtropical Cities: Global Overview and Research Frontiers in Hong Kong	Emily Chan , Director of the Centre for Global Health, Chinese University of Hong Kong, China	
	Facing the Future of a Warming World	Kristie Ebi , Lead Author of IPCC SR1.5M Director of the Center for Health and the Global Environment, University of Washington, USA	
	Making a difference in the context of DRR	Virginia Murray , Head of Disaster Risk Reduction at Public Health England, UK	
10:15 – 10:45	Group Photo Coffee & Networking Break		
10:45 – 12:00	Global Status of Heat Knowledge and Action Moderator: Juli Trtanj , National Oceanic and Atmospheric Administration (NOAA) USA		Plenary
	Building Heat Health Management Networks: Partnerships and capacity	Julie Arrighi , Red Cross Red Crescent Climate Centre/American Red Cross	
	Understanding Risk and Predicting Health Outcomes	Sari Kovats , London School of Hygiene and Tropical Medicine, UK	
	Weather and climate information to facilitate action	Hannah Nissan , International Research Institute for Climate and Society, USA	
	Actions to manage heat risks - interventions and effectiveness	Shubhayu Saha , Centers for Disease Control and Prevention, USA	
	Taking Action: Engagement, Outreach, and Communication	Margaret Harris , World Health Organization	
	Panel Discussion with experts		
12:00 – 13:00	Catered Lunch		Dining Hall (P3)



Day 1: Monday
Afternoon
17 December 2018

Heat and Health Around the World

13:00 – 15:00

What's Hot? Panel 1: Regional Perspectives of Heat Risks

Moderator: Glenn McGregor, University Durham, UK

Plenary

Europe **Andreas Matzarakis**, Research Centre Human Biometeorology of the German Meteorological Service (DWD), Germany

North America **Melissa McDonald**, Environment and Climate Change Canada, Canada

Africa **Ousman Ndiaye**, Department of Meteorology (ANACIM), Senegal

Australia-Pacific **John Nairn CF**, University Adelaide, Bureau of Meteorology, Australia

Caribbean and South America **Cedric Van Meerbeeck**, Caribbean Institute for Meteorology & Hydrology (CIMH), Barbados
Natalia Herrera, National Meteorological Service, Argentina

South and South East Asia **Subhash Bhan**, India Meteorology Department (IMD), India

North and East Asia **Gabriel Lau**, Chinese University of Hong Kong, China

Facilitated Discussion and Q&A

15:00 – 15:30

Coffee & Networking Break

15:30 – 17:00

What's Hot? Panel 2: Regional Perspectives of Heat Action and Innovation

Moderator: Joy Shumake-Guillemot

Plenary

Europe **Hans-Guido Mücke**, German Federal Environment Agency (Umweltbundesamt/UBA), Germany

North America **Juli Trtanj**, National Oceanic and Atmospheric Administration (NOAA), USA

Africa and Middle East **Rachid Wahabi**, Ministry of Health, Morocco

Australia-Pacific **Leigh Wilson**, University of Sydney, Australia

Caribbean –South America **Francisco Chesini**, Ministry of Health Argentina

South and South East Asia **Liviu Vedrasco**, World Health Organization-Thailand

North and East Asia **Gloria Chan**, Chinese University of Hong Kong; **Asuka Suzuki-Parker**, University of Risho – Japan,

Facilitated Discussion and Q&A

17:00 – 17:30

Wrap up

Plenary

17:30 – 19:30

Welcome Reception

Foyer



Day 2: Tuesday Morning 18 December 2018	GHHIN Thematic Areas for Managing Heat Health Risk	
08:00 – 08:30	Coffee & Networking Break	Foyer
08:30 – 09:00	Opening Technical Day 2	Plenary
	Announcements & Technical Kick-off	Juli Trtanj , National Oceanic and Atmospheric Administration (NOAA), USA
Morning Parallel Breakouts		
09:00 – 12:30	Theme 2: Understanding Risk and Predicting Health Outcomes Chair: Sari Kovats, London School of Hygiene and Tropical Medicine, UK	Room P5-01
09:00 – 10:15	Part 1. Population Based Studies.	Room P5-01
	Association between temperature and health outcomes of population in Thailand	Benjawan Tawatsupa , Ministry of Public Health, Thailand
	Analysis of mortality during heat waves in 2013-2014 summer in Argentina	Francesco Chesini , Ministry of Health and Social Development, Argentina
	Recent trends in temperature, vulnerability and heat-attributable mortality in Europe	Joan Ballester , Barcelona Institute for Global Health (ISGlobal), Spain
	Identifying and attributing heat effects in rural Bangladesh	Peter Kim Streatfield , International Centre for Diarrhoeal Disease Research, Bangladesh
	Discussion	
10:15 – 11:00	Part 2. Physiological Studies/Occupational Health	Room P5-01
	Impacts of occupational heat strain on health and productivity: systematic review	Andreas Flouris , University of Thessaly, Greece
	Meta-analysis to evaluate the effectiveness of heat injury reduction measures	Jason Lee , National University of Singapore, Singapore
	Should electric fans be used in a heatwave?	Ollie Jay , The University of Sydney, Australia
	Discussion	
11:00 – 11:30	Coffee & Networking Break	Foyer
11:30 – 12:00	Part 3. Studies on Health Perceptions and Behaviour	Room



		P5-01
	Personal heat protective measures during the 2017 heatwave in Hong Kong: a telephone survey study	Holly Lam , Chinese University of Hong Kong, China
	Identifying and engaging with groups vulnerable to heat risks.	Ashley Ward , Carolinas Integrated Sciences and Assessments (CISA), USA
12:00 – 12:30	Part 4. Key Messages Facilitated Discussion	
12:30 – 14:00	Catered Lunch Break and Technical Poster Session	Foyer
09:00 – 12:30	Theme 3: Weather and climate information to facilitate action Chair: Hannah Nissan, International Institute of Climate and Society (IRI) USA	Room P5-03
09:00 – 09:35	Opening Presentations	
	Weather and Climate Information for Heat Health Management Systems	Glenn McGregor , Dept. of Geography, Durham University, UK
	Heat Forecasting, Advancing our Capabilities and Knowing our Limitations	Melissa MacDonald , Environment and Climate Change Canada (ECCC), Canada
09:35 – 10:05	Global Perspectives on Climate and Meteorological Information.	
	Heatwave Early Warning System in Argentina	Natalia Herrera , National Meteorological Service, Argentina
	Indian heat early warning system, scale-up and operational issues	Subash Bhan , India Meteorological Department, India
	Providing heatwave early warning in a region with low predictability - a Caribbean approach	Cedric Van Meerbeeck , Caribbean Institute for Meteorology & Hydrology (CIMH), Barbados
10:05 – 11:00	Panel: Weather & Climate Information to Facilitate Action	
	- Serge Janicot , L'Institut de recherche pour le développement (IRD), France	
	- Melissa MacDonald , Environment and Climate Change Canada (ECCC), Canada	
	- Inoka Suraweera , Ministry of Health, Sri Lanka	
	- Wassila Thiaw , National Oceanic and Atmospheric Administration (NOAA), USA	
11:00 – 11:30	Coffee & Networking Break	Foyer
11:30 - 12:30	Panel: The Future of Heat Information Products	P5-03
	- Lap-Shun Lee , Hong Kong Observatory, China	
	- Sarah Klassen , START Network, UK	
	- Atul Kumar Sahai , Indian Institute of Tropical Meteorology, India	
	- Shubhayu Saha , Center for Disease Control and Prevention (CDC), USA	
12:30 – 14:00	Catered Lunch Break and Technical Poster Session	Foyer



Day 2: Tuesday
Afternoon
18 December 2018

Parallel Technical Workshops on Thematic Areas for Managing Heat Health Risk

Theme 1: Partnerships and Capacity to building heat health management networks

Chairs: Glenn McGregor, Univ. of Durham, United Kingdom, and Juli Trtanj, US-NOAA

14:00 – 15:30

Heat Health Partnerships in Action

Room
P5-01

Opportunities for Global Impact – Working with Family Doctors

Donald Li, World Organization of Family Doctors (WONCA), Hong Kong, China

Japan: Heat Health Warning System

Michihiko Tonouchi, Japan Meteorological Business Support Center, Japan

Governance and Difference: lessons from northern Australia

Elsbeth Oppermann, Technical University of Munich, Germany

Argentina collaboration between Ministry of Health and Social Development and the National Meteorological Service

Francisco Chesini, Ministry of Health and Social Development, Argentina and **Natalia Herrera**, National Meteorological Service, Argentina

Integrated Systems Approaches: The US National Integrated Heat Health Information System (NIHHIS)

Hunter Jones, National Oceanic and Atmospheric Administration (NOAA), USA and **Shubhayu Saha**, Centers for Disease Control and Prevention (CDC), USA

15:30 – 16:00

Coffee & Networking Break

Foyer

16:00 – 16:15

Working with Community Based Organizations - Opportunities for Impact and Capacity Building

Julie Arrighi, Red Cross Red Crescent Climate Centre/American Red Cross

Room
P5-01

England Heat Plan

Virginia Murray, on Behalf of Emer O’Connell, Interim Head of Extreme Events and Health Protection, Public Health England

16:15 – 17:30

Breakout Session

Room
P5-01

Address on forging Partnerships in India to scale up heat related policy

Sujata Saunik, Indian Administrative Service, India (recorded)

Breakouts

Moderators
Montira Pongsiri, Glenn McGregor, Juli Trtanj, Hunter Jones, Andreas Matzarakis

Report Back from Break Out Groups and Plenary Discussion

Glenn McGregor



Day 2: Tuesday
Afternoon
18 December 2018

Parallel Technical Workshops on GHHIN Thematic Areas for Managing Heat Health Risk

Theme 4: Managing heat risk: actions, interventions and effectiveness

Chairs: Shubhayu Saha, Centers for Disease Control and Prevention, USA

14:00 – 15:30

Heat Health Interventions

Room
P5-03

NYC: Household interventions on A/C distribution

Kaz Ito, New York City Department of Health, USA

Arizona: Cooling shelters

Dave Hondula, Arizona State University, USA

Pakistan: heat intervention for healthcare providers

Junaid Razzak, John Hopkins University School of Medicine, USA

Japan: community trials

Yasushi Honda, University of Tsukuba, Japan

Europe: Occupational heat stress mitigation

Lars Nybo, University of Copenhagen, Denmark

Hong Kong: Sustainable Urban and Environmental Design

Chao Ren, Faculty of Architecture, University of Hong Kong, China

Vietnam: Forecast Based Financing

Jerome Faucet, German Red Cross, Vietnam

Moderated Discussion

Shubhayu Saha, Centers for Disease Control and Prevention (CDC), USA

15:30 – 16:00

Coffee & Networking Break

Foyer

16:00 – 17:30

Part 2 - Evaluation of the Effectiveness of Interventions

Room
P5-03

16:00 – 16:15

Canada Heat Alert and Response System (HARS)

Tom Kosatsky, British Columbia Centre for Disease Control, Canada

16:15 – 16:45

Moderated Discussion

Shubhayu Saha, Centers for Disease Control and Prevention (CDC), USA

16:45 – 17:55

Development of a Heat Action Plan

Room
P5-03

India: Ahmedabad heat action plan

Dileep Mavalankar, Indian Institute of Public Health, Gandhinagar, India

Moderated Discussion

Shubhayu Saha, Centers for Disease Control and Prevention (CDC), USA

Session Wrap Up



Day 3: Wednesday Morning 19 December 2018	Communications for Heat Action		
08:00 – 08:30	Coffee & Networking Break		
08:30 – 08:35	Announcements & Technical Kick-off		Plenary
08:35 – 09:00	Keynote: Evidence-based Health Risk Communications Margaret Harris, WHO Emergency Communications Advisor		
09:00 – 10:30	Plenary Panel Discussion: Communicating for Action Moderator: Margaret Harris		
	How we can use broadcast meteorology to save lives?	Alex TS Tsoi , Broadcast Meteorologist and HKO Scientific Officer, China	
	Engaging communities to reduce risk	Candy Yeung , Deputy Secretary-General, Hong Kong Red Cross, China	
	How the media can communicate to reduce risk?	Jason Gale , Senior Editor, Bloomberg News, Australia	
	Perspectives on communicating risk from a doctor	Yu Fat Chow , World Association of Family Doctors, and Hong Kong Jockey Club, China	
10:30 – 11:00	Coffee & Networking Break		Foyer
11:00 – 12:30	The Great Heat Health Resilience Debate Moderator: Roop Singh, Climate Risk Advisor, Red Cross Red Crescent Climate Centre		Plenary
	Responding to acute heatwave events	Virginia Murray , Head of Disaster Risk Reduction at Public Health England, UK	
	Long-term preparedness and city actions	Chao Ren , Faculty of Architecture, University of Hong Kong, Hong Kong	
	Building long-term resilience	Ousmane Ndiaye , Senegal Meteorological Department (ANACIM)	
12:30 – 13:30	Lunch		Dining Hall (P3)



Day 3: Wednesday Afternoon 19 December 2018	Parallel Sessions on Communications for Heat Action	
	Communications for Heat Action	
13:30 – 15:00	Masterclass: Communicating for Future Resilience	Plenary
	Plenary Panel Discussion: Communicating for Action	P5-01
	<ul style="list-style-type: none"> - KL Lee, Hong Kong Observatory - Sujoud Gallab, Ministry of Health, Saudi Arabia - Candy Yeung, Deputy Secretary General, Hong Kong Red Cross, Hong Kong - Virginia Murray, Head of Disaster Risk Reduction at Public Health England, UK 	
15:00 – 15:30	Coffee & Networking Break	Foyer
13:30 – 15:50	<p>Simulation Exercise: Communicating to Save Lives in a Heat Emergency Scenario Moderator: Lucas Scherdel and Margaret Harris (WHO), Jason Gale (Bloomberg News)</p> <p>Delivered by the World Health Organization, this interactive exercise will engage participants in a role playing simulation to manage the communications and actions during an extreme heat event with many casualties in a fictional country. Participants will gain practical experience of creating effective communication strategies to save lives in a heat emergency.</p>	Room P5-03
16:00 – 16:45	<p>Future Directions and Closing Plenary Moderators: Joy Shumake-Guillemot (WMO/WHO) and Juli Trtanj (NOAA)</p>	Plenary
	<p>Key Messages and Outcomes of the Forum</p> <p>Results and Findings from Technical Themes Interim Steering Committee</p> <p>Future Directions for the Global Heat Health Information Network</p>	
16:45 – 17:00	Closing and Thank You	Interim Steering Committee

Free Evening to Explore Hong Kong



Day 4: Hong Kong Heat Project Site Visits

Further information on signup and logistics available at registration.

Visit 1: Hong Kong Housing Authority - Exhibition Centre

Visit 2: Senior Citizen Home Safety Association

See how the Senior Citizen Home Safety Association enhances the living quality of the elderly in the community through the use of technology, people-oriented services, and innovative methods

Visit 3: Hong Kong Observatory Tour

The guided tour will take the visitors back in time to trace the development of the Observatory over the past 130 years. Visitors can see how weather forecasts are made and how technology is put to use.

Visit 4: Energy poverty Lab - Simulated Subdivided Flat tour

Experience for yourself what it is like for the many residents of Hong Kong to live in cramped quarters, cooking, relaxing, and sleeping in a small room with inadequate cooling.