



TIEMS 2024 VIRTUAL ANNUAL CONFERENCE PROGRAM

25TH - 29TH NOVEMBER 2024



Day/Chair Time (CET)	Monday 25 th November TQC & TQAC Workshop	Tuesday 26 th November Chair: Meen Chhetri	Wednesday 27 th November Chair: Gilles Dusserre	Thursday 28 th November Chair: Roman Tandlich	Friday 29 th November Chair: Jaroslav Pejcoch
08:00 - 09:00	Registration and joining instructions for the TQC/TQAC workshop participants	Registration and joining instructions for the participants	Registration and joining instructions for the participants	Registration and joining instructions for the participants	Registration and joining instructions for the participants
09:00 - 10:00	Registration and joining instructions for the TQC/TQAC workshop participants	Conference Official Opening and plenary talk by TIEMS President Kåre Harald Drager - Contributions to a Safer World. TIEMS Future Plans	Session 5 Keynote Plenary lecture - Brian Holecek Oam Cem Faies and Sergio Pirone Dr.PhD Real Time Communication with Citizens during Emergencies	Session 11 Keynote Plenary lecture - Pau Brunet-Navarro, Laia Casafont and Antoni Trasobares - Innovative solutions for fire resilient territories in Europe. Preliminary results from FIRE-RES project	Session 17 Keynote Plenary lecture – Theodore Duxbury – Social and Community Resilience for Drought in Isolated communities in Developing Countries
10:00 – 10:30	Coffee/Tea Break	Coffee/Tea Break	Coffee/Tea Break	Coffee/Tea Break	Coffee/Tea Break
10:30 – 11:00	TQC & TQAC Workshop Morning (CET) Instructor K. Harald Drager 2. 5 hours	Session 1 Keynote Plenary lecture - Claudia Berchtold - Considering Justice Aspects in Wildfire Risk Management	Session 6 Integrated operational systems in emergency and disaster risk management	Session 12 USAR and training of rescue teams in Asia	Session 18 Cybersecurity, AI and emergency and disaster risk management
11:00 – 12:00		Session 2 Education and Training in emergency and disaster risk management	Session 7 Seismic Events, Landslides and their emergency and disaster risk management implications	Session 13 Ethics, justice and related considerations in emergency and disaster risk management	Session 19 Challenges in emergency and disaster management in South Africa
12:00 – 13:00		TIEMS Annual General Meeting	Session 8 Preparedness in emergency disaster risk management	Session 14 PLENARY LECTURE - Plenary lecture - Kutumba Rao Nathala Natural Disasters -an	Summary and Closing Remarks

				over view, with special reference to Landslides and Disaster Management in the Indian context	
13:00 – 14:00	Lunch Break	Lunch Break	Lunch Break	Lunch Break	End of Conference
14:00 – 15:30	<u>TQC & TQAC Workshop</u> Afternoon (CET) 2.5 hours Instructor K. Harald Drager	<u>Session 3</u> Science and Technology in emergency and disaster risk management	<u>Session 9</u> Vulnerability of human populations in developing countries	<u>Session 15</u> Humanitarian assistance, response and recovery	
15:30 - 16:00	Coffee/Tea Break	Coffee/Tea Break	Coffee/Tea Break	Coffee/Tea Break	
16:00 – 16:30	Continue	<u>Session 4</u> Disasters and human impacts in South Asia	<u>Session 10</u> Climate change and transboundary considerations in emergency and disaster risk management.	<u>Session 16</u> Stakeholder diversity and relational engagements in disaster risk management	
16:30 – 17:00	Kåre Harald Drager - TIEMS International Certifications - TQC & TQAC in a Global Perspective				
17:00-17:15	Q & A/Summary of day by Chair	Q & A/Summary of day by Chair	Q & A/Summary of day by Chair	Q & A/Summary of day by Chair	
17:20	End of Day 1	End of Day 2	End of Day 3	End of Day 4	

TIEMS 2024 Online Annual Conference Monday 25th November 2024

Chairperson: K. Harald Drager

CEST Time	Presenter/Authors	Title	Organization(s)	Country
08:00 09:00		REGISTRATION		
09:00 17:00		TQC/TQAC WORKSHOP (VIRTUAL) PRESENTER: K. HARALD DRAGER		

TIEMS 2024 Online Annual Conference Tuesday 26th November 2024

Chairperson: Professor Meen Chhetri, TIEMS, Nepal/Australia

Time CEST	Presenter/ Authors	Title	Organization(s)	Country
08:00 09:00	REGISTRATION			
09:00 10:00	CONFERENCE OFFICIAL OPENING AND PLENARY LECTURE BY TIEMS PRESIDENT KÅRE HARALD DRAGER - CONTRIBUTIONS TO A SAFER WORLD AND TIEMS FUTURE PLANS			
10:00 10:30	COFFEE/TEA/WATER			
10:30 11:00	SESSION 1 PLENARY LECTURE - CLAUDIA BERCHTOLD - CONSIDERING JUSTICE ASPECTS IN WILDFIRE RISK MANAGEMENT			
11:00 12:30	SESSION 2 EDUCATION AND TRAINING IN EMERGENCY AND DISASTER RISK MANAGEMENT			
11:00 11:15	Russell Dippy	PROFESSIONALISATION OF THE EMERGENCY MANAGER IN AUSTRALIA	Charles Sturt University	AUSTRALIA
11:15 11:30	Rashika Tasnim Keya, Ilona Heldal and Cecilia Hammar Wijkmark	EVALUATING NEW TECHNOLOGIES FOR TRAINING TO HANDLE DISASTER PREPAREDNESS FOR STUDENTS - LESSONS AND GOOD PRACTICES FROM A LARGE EUROPEAN PROJECT	Western Norway University	NORWAY
11:30 11:45	Rhea Penafior	EVALUATING THE EFFECTIVENESS OF MASTER OF DISASTER (MOD) BOARD GAME IN ENHANCING DISASTER PREPAREDNESS AND RESPONSE AMONG CHILDREN	Trinity University of Asia	PHILIPPINES
11:45 12:00	A S Senthivadivel and W G Prasanna Kumar	ENHANCING COMPETENCIES OF STAKEHOLDERS IN DISASTER MANAGEMENT: ISSUES AND SOLUTIONS	Indian Disaster Management	INDIA
12:00 12:15	Rick Christ and Cody Grasty	RE-THINKING EMERGENCY MANAGEMENT TRAINING FOR EFFECTIVENESS AND ACCESSIBILITY WORLDWIDE	Crisis Prevention & Response, Inc. / DC	USA

			Homeland Security and Emergency Management Agency	
12:15 12:30	QUESTION AND ANSWER SESSION FOR THE MORNING SESSION.			
12:30 13:30	TIEMS ANNUAL GENERAL MEETING ONLY FOR TIEMS MEMBERS			
13:30 14:00	LUNCH			
14:00 15:30	SESSION 3 SCIENCE AND TECHNOLOGY IN EMERGENCY AND DISASTER RISK MANAGEMENT			
14:00 14:15	Harjeet Nath	A PORTABLE WATER PURIFICATION SYSTEM DESIGNED FOR EMERGENCY PURPOSES SUCH AS FLOODS & CYCLONES	Tripura University (A Central University)	INDIA
14:15 14:30	Bhaskara Rao Mulam	ROLE OF SCIENCE, TECHNOLOGY, AND INNOVATION (STI) IN STRENGTHENING AND IMPROVING EARLY WARNING SYSTEMS IN SOUTH ASIA FOR REDUCING LOSS AND DAMAGES DURING NATURAL DISASTERS	Rajiv Gandhi University of Knowledge Technologies	INDIA
14:30 14:45	Jakub Ryzenko, Anna Nk and Emil Wrzosek	2030 HORIZON FOR DRONES IN CIVIL PROTECTION AND CRISIS MANAGEMENT ACTIVITIES	Crisis Information Centre CBK PAN	POLAND
14:45 15:00	Shayla Clarke and Zachary Lee	UTILIZING TECHNOLOGY TO ENSURE A SAFE AND SECURE CAMPUS	STONY BROOK UNIVERSITY	USA
15:00 15:15	Thomas Robertson	APPLYING SCIENCE TO CRISIS RESPONSE: OPPORTUNITIES AND CHALLENGES	Thinking TEAMS/TIEMS North America	USA
15:15 15:30	Baibhav Patel, Narendra Singh Kachhotiya and N M Prusty	POTENTIAL USE OF DRONE AND ALLIED TECHNOLOGY IN DISASTER MANAGEMENT	BonV Aero/ Drones 4 Humanity (D4H)/ CDDMASS	INDIA
15.30 16:00	COFFEE/TEA/WATER			
16:00 17:00	SESSION 4 DISASTERS AND HUMAN IMPACTS IN SOUTH ASIA			
16:00 16:15	Dukhi Sah	STRUCTURAL ASSESSMENT OF EXISTING BUILDINGS- ESSENTIAL FOR SEISMIC RESILIENCE IN INDIA	Independent Practitioner	INDIA
16:15 16:30	Sushant Bansal and Ankita Jha	A CITY CHOKING: THE DISASTROUS AIR POLLUTION IN DELHI, INDIA	Independent Researchers	INDIA

16:30 16:45	Raju Thapa	RISK TRANSFER AND DISASTER RISK FINANCING IN NEPAL	Disaster Preparedness Network	NEPAL
16:45 17:00	Bimlendu Kumar Mishra	LIVING ON THE EDGE: NATURAL DISASTERS AND HUMAN LIFE IN NEPAL	Tribhuvan University	NEPAL
17:00 17:15	Harjeet Nath	DELIVERING CLEAN WATER SOLUTIONS: LESSONS FROM FLOOD RELIEF EFFORTS 2022 AND 2024 IN SOUTH ASSAM, INDIA.	Tripura University (A Central University)	INDIA
17:15 17:30	QUESTION AND ANSWER SESSION			
17:30	SUMMARY OF DAY 2 BY CHAIR: MEEN CHHETRI			
17:40	END OF CONFERENCE DAY 2			

TIEMS 2024 Online Annual Conference Wednesday 27th November 2024

Chairperson: Professor Gilles Dusserre, University of Nîmes, South Africa

CEST Time	Presenter/Authors	Title	Organization(s)	Country
08:00 09:00	REGISTRATION			
09:00 10:00	SESSION 5 PLENARY LECTURE - BRIAN HOLECEK OAM CEM FAIES AND SERGIO PIRONE DR.PHD REAL TIME COMMUNICATION WITH CITIZENS DURING EMERGENCIES			
10:00 10:30	COFFEE/TEA/WATER			
10:30 11:00	SESSION 6 INTEGRATED OPERATIONAL SYSTEMS IN EMERGENCY AND DISASTER RISK MANAGEMENT			
10:30 10:45	Kyle King, Jean Paul Monet and Thomas Robertson	IMPROVING INTEROPERABILITY FOR EU JOINT CIVIL PROTECTION ACTIONS	CBI/TIEMS/THINKING TEAMS	USA/FRANCE
10:45 11:00	Krishna Chandramouli	A SYSTEMIC FRAMEWORK FOR THE ADOPTION OF INTEGRATED FIRE MANAGEMENT	Venaka Treleaf GbR	UNITED KINGDOM
SESSION 7 SEISMIC EVENTS, LANDSLIDES AND THEIR IMPLICATIONS IN EMERGENCY AND DISASTER RISK MANAGEMENT				
11:00 11:15	Federico Bartolozzi	A SEISMIC CONSTRUCTION WITH SELF-CENTERING MOVABLE FLOORS	Independent Researcher	ITALY
11:15 11:30	Meen Poudyal Chhetri	SOCIO-ECONOMIC RAMIFICATIONS AND INSIGHTS FROM THE 2015 GORKHA EARTHQUAKE IN NEPAL	Queensland University of Technology	NEPAL/AUSTRALIA
11:30 11:45	Nicola Perilli, Angelo Doglioni, Massimiliano Lombardi, Stefano Stacul and Nunzianta Squeglia	KEY AREAS, WORKFLOW AND TASKS TO IMPROVE THE COLLECTION OF REMOTE AND GROUND-BASED DATA REQUIRED FOR THE ASSESSMENT OF THE LANDSLIDE CLASS OF ATTENTION OF ITALIAN EXISTING BRIDGES	Pisa University/Polytechnic University of Bari	ITALY
11:45 12:00	QUESTION AND ANSWER SESSION			
12:00	SESSION 8			

13:00	PREPAREDNESS IN EMERGENCY AND DISASTER RISK MANAGEMENT			
12:00 12:15	Jaroslav Pejcoch	HAVE YOU EVER HAD A PLAN B? AND IF SO, ARE YOU SURE YOU WOULD BE ABLE TO EXECUTE IT?	T-Soft	CZECHIA
12:15 12:30	Free Slot	FREE SLOT	Free Slot	FREE SLOT
12:30 12:45	Meen Poudyal Chhetri -	HARNESSING SPACE TECHNOLOGIES FOR MANAGING MULTI-HAZARD DISASTERS	Queensland University of Technology	NEPAL/AUSTRALIA
12:45 13:00	Eric T Stoch and Kobus Roux	LEVERAGING TRANSPORTATION INFRASTRUCTURE AS STRATEGIC FIREBREAKS: WITH SPECIAL REFERENCE TO PREAPREDNESS AND COMMUNITY-BASED DISASTER RISK REDUCTION IN THE NORTH WEST PROVINCE, SOUTH AFRICA	Northwest Umbrella Fire Protection Association	SOUTH AFRICA
13:00 13:15	QUESTION AND ANSWER SESSION			
13:15 14:00	LUNCH			
14:00 15:30	SESSION 9 VULNERABILITY OF HUMAN POPULATIONS IN DEVELOPING COUNTRIES			
14:00 14:15	Taiwo Adesina	ASSESSMENT OF LIVELIHOOD SUSTAINABILITY PROGRAMMES IN INTERNALLY DISPLACED PERSONS' CAMPS ABUJA, NIGERIA.	Independent Researcher	NIGERIA
14:15 14:30	Munir Mohammed	ASSESSMENT OF SOCIO-ECONOMIC EFFECT OF COVID-19 LOCKDOWN IN MINNA AND IT'S ENVIRONS. SUJATA KODAG AND ABHISHEK KODAG ASSESSING THE VULNERABILITY OF URBAN POOR TO CLIMATE CHANGE - A CASE OF PUNE, MAHARASHTRA	Centre for Disaster Risk Management and Development Studies Federal University of Technology Minna Nigeria	NIGERIA
14:30 14:45	Bagudu Sadiq Mohamad, Emmanuel Umaru, Idris Mohammed and Gbenga Morenikeji	PERI-URBAN GROWTH AND HOUSING DEVELOPMENT IN MINNA, NIGER STATE NIGERIA	Centre for Disaster Risk Management and Development Studies Federal University of Technology Minna Nigeria	NIGERIA
14:45 15:00	Ayileke Felix Ojo, Idris Mohammed and Gbenga Morenikeji	ASSESSMENT OF EFFECTS OF BANDITRY ON LIVELIHOOD OF FARMERS IN SHIRORO LOCAL GOVERNMENT AREA IN NIGER STATE, NIGERIA.	Centre for Disaster Risk Management and Development Studies Federal University of Technology Minna Nigeria	NIGERIA

15:00 15:15	Rajkumar Gade and Jayasree Kuchu	RISK GOVERNANCE IN THE HORN OF AFRICA: ADDRESSING INSTITUTIONAL CAPACITY AND COORDINATION CHALLENGES FACED BY HUMANITARIAN ORGANIZATIONS	Independent Consultant/Vasavi College of Engineering,Hyderabad, Telangana,India	INDIA
15:15 15:30	Megan Reshay Mokwena and Eric T Stoch	EMPOWERING WOMEN, YOUTH, AND PERSONS WITH DISABILITIES WITH SPECIAL REFERENCE TO WILDFIRES IN THE NORTH WEST PROVINCE OF SOUTH AFRICA	Northwest Umbrella Fire Protection Association	SOUTH AFRICA
15.30 16:00	COFFEE/TEA/WATER			
16:00 17:00	SESSION 10 CLIMATE CHANGE AND TRANSBOUNDARY CONSIDERATIONS IN EMERGENCY AND DISASTER RISK MANAGEMENT			
16:00 16:15	George Markowsky	UNDERSTANDING GLOBAL WARMING	Kennesaw State University	USA
16:15 16:30	Raul Savimaa	DISASTER AND CRISIS PREPAREDNESS OF COMMUNITIES AND ITS IMPORTANCE DURING POLYCRISES	Estonian Academy of Security Sciences; CESERE	ESTONIA
16:30 16:45	Warwick Windell	ROLE OF LOCAL GOVERNMENT PLANNING IN INCREASING PREPAREDNESS IN DEVELOPING COUNTRIES	RHODES UNIVERSITY	SOUTH AFRICA
16:45 17:00	Abdul Khalid, Akansha Saklani and Masfick Hazarika	DATA-DRIVEN APPROACH IN THE SELECTION OF VILLAGES FOR STATE-LEVEL CLIMATE RESILIENCE PROGRAM	WRI India	INDIA
17:00 17:15	QUESTION AND ANSWER SESSION			
17:15	SUMMARY OF DAY 3 BY CHAIR: GILLES DUSSERRE			
17:20	END OF CONFERENCE DAY 3			

TIEMS 2024 Online Annual Conference Thursday 28th November 2024

Chairperson: Professor Roman Tandlich, TIEMS, South Africa

CEST Time	Presenter/ Authors	Title	Organization(s)	Country
08:00 09:00	REGISTRATION			
09:00 10:00	SESSION 11 PLENARY LECTURE - PAU BRUNET-NAVARRO, LAIA CASAFONT AND ANTONI TRASOBARES - INNOVATIVE SOLUTIONS FOR FIRE RESILIENT TERRITORIES IN EUROPE. PRELIMINARY RESULTS FROM FIRE-RES PROJECT			
10:00 10:30	COFFEE/TEA/WATER			
10:30 11:00	SESSION 12 USAR AND TRAINING OF RESCUE TEAMS IN ASIA			
10:30 10:45	Guosheng Qu, Haiying Wang and Wenlong Yang	USAR CLASSIFICATION AND CAPACITY BUILDINGS IN CHINA	Resilient City Research Center of Hangzhou City University, China/ National Earthquake Response Support Service (NERSS), China Earthquake Administration/ Beijing Boya Anzhou Co., Ltd., China	CHINA
10:45 11:00	Junkun Zhu and Guosheng Qu	Illustration and Action Plan of Research and Training Base in Kunming, Yunnan Province, China of Flying Tiger Hump Industrial (Group) Co., Ltd combined with The International Emergency Management Society (TIEMS)	Flying Tiger Hump Industrial (Group) Co., Ltd., Kunming, Yunnan Province, China/ Resilient City Research Center of Hangzhou City University, China	CHINA
11:00 12:00	SESSION 13 ETHICS, JUSTICE AND RELATED CONSIDERATIONS IN EMERGENCY AND DISASTER RISK MANAGEMENT			

11:00 11:15	Maame Ansah and Roman Tandlich	ROLE OF NONGOVERNMENTAL ORGANISATIONS IN THE MANAGEMENT OF ANIMAL WELFARE DURING DISASTERS	Rhodes University	SOUTH AFRICA
11:15 11:30	Tobias Nauruki	INTEGRATING INDIGENOUS KNOWLEDGE AND MODERN PRACTICES FOR EFFECTIVE DISASTER RISK REDUCTION AND CLIMATE CHANGE ADAPTATION IN SUB-SAHARAN AFRICA	AIPRC	KENYA
11:30 11:45	Eric T Stoch	BRIDGING THE DIVIDE: A COLLABORATIVE FIRE SAFETY MODEL FOR TRIBAL AND KHOI-SAN COMMUNITIES IN SOUTH AFRICA IN THE FACE OF CLIMATE CHANGE AND SOCIO-POLITICAL CHALLENGES	Northwest Umbrella Fire Protection Association	SOUTH AFRICA
11:45 12:00	Binay K Jha	COVID-19 : BEATING A PANDEMIC, THE PEOPLE'S WAY	MyPlanetSmiles	INDIA
12:00 12:15	QUESTION AND ANSWER SESSION			
12:15 13:15	SESSION 14 KEYNOTE - PLENARY LECTURE - KUTUMBA RAO NATHALA NATURAL DISASTERS -AN OVER VIEW, WITH SPECIAL REFERENCE TO LANDSLIDES AND DISASTER MANAGEMENT IN THE INDIAN CONTEXT			
13:15 14:00	LUNCH			
14:00 15:30	SESSION 15 HUMANITARIAN ASSISTANCE, RESPONSE AND RECOVERY IN EMERGENCY AND DISASTER RISK MANAGEMENT			
14:00 14:15	Josef Leitmann	THE DAY AFTER: LESSONS AND GOOD PRACTICES FOR RECOVERY FROM CONFLICT	Rapid Assessment, Planning and Implementation for Development (RAPID LLC)	USA
14:15 14:30	Yosuke Okita and Yusuke Minato	RETHINKING INTERNATIONAL USAR	Keio University/ Japan International Development Agency	JAPAN
14:30 14:45	Free Slot	FREE SLOT	Free Slot	FREE SLOT
14:45 15:00	Bhagat Khanna	ROLE OF PRIVATE SECTOR IN RESILIENCE BUILDING AND DISASTER RISK MANAGEMENT	UNDRR ARISE GLOBAL BOARD GENEVA	SWITZERLAND
15:00 15:15	Bhagat Khanna	HUMANITARIAN RAMIFICATIONS OF BILATERAL CONFLICTS	UNDRR ARISE GLOBAL BOARD GENEVA	SWITZERLAND

15:15 15:30	QUESTION AND ANSWER SESSION			
15:30 16:00	COFFEE/TEA/WATER			
16:00 17:00	SESSION 16 STAKEHOLDER DIVERSITY AND RELATIONAL ENGAGEMENTS IN DISASTER RISK MANAGEMENT			
16:00 16:15	Dolly Kunene	THE ROLE OF GOVERNANCE IN MITIGATING ILLIGAL MINING IN POST MINING COMMUNITIES: A CASE STUDY OF STILFONTEIN, SOUTH AFRICA	STENDEN SOUTH AFRICA	SOUTH AFRICA
16:15 16:30	Probir Roy	EMERGENCY SCENARIOS ON ACCOUNT OF DISASTERS - ROLE OF PRIVATE STAKEHOLDERS	Alize Capital India	INDIA
16:30 16:45	Eric J Nealer and Eric T Stoch	THE RELEVANCE OF ENGAGED SCHOLARSHIP: MITIGATING MINING IMPACTS ON THE FAR WEST RAND DOLOMITES	University of South Africa/ Northwest Umbrella Fire Protection Association	SOUTH AFRICA
16:45 17:00	Gregory Vigneaux	THE BIOLOGY OF RESILIENCE: A DYNAMIC ARCHITECTURE OF MOOD AND SOCIAL-RELATIONAL PROCESSES	Operational Coherence	USA
17:00 17:15	QUESTION AND ANSWER SESSION			
17:20	SUMMARY OF DAY 4 BY CHAIR: PROFESSOR ROMAN TANDLICH			

TIEMS 2024 Online Annual Conference Friday 29st November 2024

Chairperson: Jaroslav Pejcoch, T-Soft, Czech Republic

CEST Time	Presenter/Authors	Title	Organization(s)	Country
08:00 09:00	REGISTRATION			
09:00 10:00	SESSION 17 KEYNOTE - PLENARY LECTURE - THEODORE DUXBURY - SOCIAL AND COMMUNITY RESILIENCE FOR DROUGHT IN ISOLATED COMMUNITIES IN DEVELOPING COUNTRIES			
10:00 10:30	COFFEE/TEA/WATER			
10:30 11:30	SESSION 18 CYBERSECURITY, AI AND EMERGENCY AND DISASTER RISK MANAGEMENT			
10:30 10:45	Henry Chima Ukwuoma, Gilles Dusserre, Gouenou Coatrieux and Johanne Vincent -	A REVIEW OF CYBER PHYSICAL SECURITY OF WATER DISTRIBUTION SYSTEMS	IMT Mines Ales	FRANCE
10:45 11:00	Emmanuel Song Shombot, Gilles Dusserre, Robert Bestak and Nasir Baba Ahmed	MITIGATING CYBER RISKS IN HEALTHCARE: LEVERAGING HISTORICAL DATA FOR FUTURE PROTECTION	IMT Mines Ales	FRANCE
11:00 11:15	Sachin Gaur	A RELIABLE CHATBOT SYSTEM FOR QUERIES LINKED WITH EMERGENCIES	Mixorg	NORWAY
11:15 11:30	Angeli Medina	A CASE STUDY ON CYBER ATTACKS ON UKRAINE AND ITS IMPLICATIONS ON GLOBAL SECURITY.	NYHHS/UNVGA	USA
11:30 11:45	QUESTION AND ANSWER SESSION			
11:45 13:00	SESSION 19 CHALLENGES IN EMERGENCY AND DISASTER MANAGEMENT IN SOUTH AFRICA			
11:45 12:00	Heidi H Coetzee and Eric J Stoch	SHRINKING WINDOWS: THE IMPACT OF CHANGING WEATHER PATTERNS ON WILDLAND FIREBREAK PREPARATION TIME	Northwest Umbrella Fire Protection Association	SOUTH AFRICA
12:00 12:15	Suna Meyer and Eric T Stoch	THE IMPACT OF RESOURCE CONSTRAINTS ON FIREFIGHTING CAPACITY: WITH SPECIAL REFERENCE TO THE NORTH WEST PROVINCE SOUTH AFRICA	Northwest Umbrella Fire Protection Association	SOUTH AFRICA

12:15 12:30	Eric T Stoch	DEVELOPING SUSTAINABLE HUMAN SETTLEMENTS IN GOLD MINING AND DOLOMITE-UNDERLAIN AREA WITH SPECIAL REFERENCE TO THE FAR WEST RAND OF SOUTH AFRICA	Northwest Umbrella Fire Protection Association	SOUTH AFRICA
12:30 12:45	Eric T Stoch and Roman Tandlich	PERFECT STORM UNMANAGED: THE NORTH WEST PROVINCIAL DISASTER MANAGEMENT CENTRE'S RESPONSE TO FLOODS, DROUGHTS, AND FIRES	Northwest Umbrella Fire Protection Association	SOUTH AFRICA
12:45 13:00	QUESTIONS AND ANSWER SESSION			
13:00 13:10	SUMMARY OF DAY 5 BY CHAIR: JAROSLAV PEJCOCH			
13:10 13:20 -	CLOSING REMARKS K. HARALD DRAGER			
13:20	END OF CONFERENCE			

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