

## TIEMS 2021 Virtual Annual Conference Final Program

TIMING	<a href="#">Monday 6<sup>th</sup> December</a>	<a href="#">Tuesday 7<sup>th</sup> December</a>	<a href="#">Wednesday 8<sup>th</sup> December</a>	<a href="#">Thursday 9<sup>th</sup> December</a>	<a href="#">Friday 10<sup>th</sup> December</a>
10:00 – 10:10	<a href="#">Opening &amp; Welcome Session</a>	<b>Second Day Introduction</b>	<b>Third Day Introduction</b>	<a href="#">IMPETUS Project Introduction</a>	<b>Fifth Day Introduction</b>
10:10 – 10:35	<a href="#">Opening and Welcome Speech</a>	<a href="#">Session 4 Emergency Management Technology</a>	<a href="#">Session 7 Preparedness, Response and Resilience</a>	<a href="#">IMPETUS Day Session 11</a>	<a href="#">Keynote Speech 3</a>
10:35 – 11:00	<a href="#">TIEMS France Chapter Update</a>				<a href="#">Session 15 COVID19 Modelling and Opportunities</a>
11:00 – 11:25	<a href="#">TIEMS President's Update</a>				
11:25 – 11:45	<b>Coffee/Tea/Water Break</b>				
11:45 – 12: 10	<a href="#">Session 1 Fire Disaster Prevention</a>	<a href="#">TIEMS 2021 AGM</a>	<a href="#">Session 8 Ethics, Resilience and Awareness</a>	<a href="#">IMPETUS Day Session 12</a>	<a href="#">Session 16 Environment, Trauma and International Crisis</a>
12:10 – 12:35					
12:35 – 13:00					
13:00 – 14:00	<b>Lunch</b>				
14:00 - 14:25	<a href="#">Keynote Speech 0</a>	<a href="#">Keynote Speech 1</a>	<a href="#">Keynote Speech 2</a>	<a href="#">IMPETUS Day Session 13</a>	<a href="#">Session 17 Urban and Public Safety</a>
14:25 – 14:50	<a href="#">Session 2 Covid19 Lessons Learned</a>	<a href="#">Session 5 Decision Support</a>	<a href="#">Session 9 Public Service and Education</a>		
14:50 – 15:15					
15:15 – 15:35	<b>Coffee/Tea/Water break</b>				
15:35 – 16:00	<a href="#">Session 3 Public Emergency Communication</a>	<a href="#">Session 6 Resilience</a>	<a href="#">Session 10 Panel on International Certifications in Emergency Management</a>	<a href="#">IMPETUS Day Session 14</a>	<a href="#">TIEMS 2022 Annual Conference Announcement</a>
16:00 – 16:25					<a href="#">Conference Summary</a>
16:25 – 16:50					<b>End of Conference</b>
16:50 – 17:00	<a href="#">Summary of the Day</a>	<a href="#">Summary of the Day</a>	<a href="#">Summary of the Day</a>	<a href="#">IMPETUS Project Summary</a>	
17:00	<b>End of Conference Day</b>				

## TIEMS 2021 Virtual Annual Conference Monday 6<sup>th</sup> December 2021

**Chairman: Jean - Paul Monet**

TIME	Presenter/Authors	Title	Organization(s)	Country
10:00 11:25	OPENING AND WELCOME SESSION			
10:00 10:10	Jean - Paul Monet	WELCOME TO TIEMS 2021 VIRTUAL ANNUAL CONFERENCE INTRODUCTION OF THE CONFERENCE PROGRAM	TIEMS Regional Director for Europe	France
10:10 10:35	Jean-Marie Le Guen	OPENING AND WELCOME	Former Minister in Charge of Relations with Parliament and President of HCFRN	France
10:35 11:00	Christian Sommade	RESILIENCE FEW DEFINITIONS	Délégué Général du Haut Comité Français pour la Résilience Nationale	France
11:00 11:25	K. Harald Drager	TIEMS STATUS - PRESENT ACTIVITIES AND FUTURE PLANS	TIEMS President	Norway
11:25 11:45	COFFEE/TEA/WATER BREAK			
11:00 13:00	SESSION 1 FIRE DISASTER PREVENTION			
11:45 12:10	Eric Saylor	QUANTIFYING THE NEGATIVE	Sacramento Fire	USA
12:10 12:35	Dave Waterhouse and François Delorme	THE ECONOMIC BENEFIT OF FIRE PREVENTION	Consultant	Canada
12:35 13:00	Fahmida Saadia Rahman <sup>1)</sup> , W. Kathy Tannous <sup>1)</sup> , Lara Harvey <sup>2)</sup> , S. Gulay Avsar <sup>1)</sup> , Kingsley E. Agho <sup>1)</sup> and Nargess Ghassempour <sup>1)</sup>	ECONOMIC COSTS OF RESIDENTIAL FIRE: A SYSTEMATIC REVIEW	Western Sydney University <sup>1)</sup> Neuroscience Research Australia <sup>2)</sup>	Australia
13:00 14:00	LUNCH			

14:00 15:15	SESSION 2 COVID19 LESSONS LEARNED			
14:00 14:25	<b>Xiaotao Cheng<sup>1)</sup> and Guosheng Qu<sup>2)</sup></b>	<b>KEYNOTE 0</b>  NEW CHARACTERISTICS OF FOOD RISK AND EMERGENCY CAPACITY STRENGTHENING UNDER CHANGING ENVIRONMENT	China Institute of Water Resources and Hydropower Research <sup>1)</sup> National Earthquake Response Support Service (NERSS) and Ministry of Emergency Management <sup>2)</sup>	China
14:25 14:50	<b>Chris Sagoe</b>	RESEARCH INTO THE POTENTIAL LINKS BETWEEN COVID19, MISINFORMATION AND THE "MISMEDICATION" IN THE KINGDOM OF LESOTHO	National University of Lesotho	<b>Lesotho</b>
14:50 15:15	<b>Meen Chhetri</b>	GROWING NEED OF INTERNATIONAL COOPERATION IN DRR	Nepal Center for Disaster Management (NCDM)	<b>Nepal</b>
15:15 15:35	COFFE/TEA/WATER BREAK			
15:35 17:00	SESSION 3 PUBLIC EMERGENCY COMMUNICATION			
15:35 16:00	<b>Kailash Gupta<sup>1)</sup>, Dharmendra Boolchandani<sup>2),1)</sup> and Caitlin Varquez<sup>3)</sup></b>	FAIL-PROOF AND FRUGAL HAM EMERGENCY COMMUNICATION	TIEMS India Chapter President <sup>1)</sup> Malaviya National Institute of Technology <sup>2)</sup> University of Minnesota <sup>3)</sup>	India <sup>1)</sup> USA <sup>3)</sup>
16:00 16:25	<b>Stéphane Grynszpan, Aurélie Rossi and Christian Fluhr</b>	GEO-CHRONOLOATED CRITICAL EVENTS ALERTS	GEOLSemantics	<b>France</b>
16:25 16:50	<b>Kailash Gupta<sup>1)</sup> and Caitlin Varquez<sup>2)</sup></b>	HAM CLUB STATION AT MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY, JAIPUR, INDIA	TIEMS India Chapter President <sup>1)</sup> University of Minnesota <sup>2)</sup>	<b>India<sup>1)</sup> USA<sup>2)</sup></b>
16:50 17:00	<b>Jean - Paul Monet</b>	SUMMARY OF THE FIRST DAY OF THE CONFERENCE	TIEMS Regional Director for Europe	<b>France</b>
1700	END OF CONFERENCE DAY 1			

## TIEMS 2021 Virtual Annual Conference Tuesday 7<sup>th</sup> December 2021

**Chairman: Roman Tandlich**

TIME	Presenter/Authors	Title	Organization(s)	Country
10:00 11:25	SESSION 4 EMERGENCY MANAGEMENT TECHNOLOGY			
10:00 10:10	<b>Roman Tandlich</b>	INTRODUCTION OF CONFERENCE DAY 2 SESSIONS	TIEMS Regional Director for Africa	South Africa
10:10 10:35	<b>Prof. N. Vinod Chandra Menon</b>	INFORMATION TECHNOLOGY ENABLED TOOLS FOR STRENGTHENING MULTI-HAZARD PREPAREDNESS AND EMERGENCY RESPONSE	International Institute of Information Technology (ISquareIT), Pune, India	India
10:35 11:00	<b>Didier Soto, Lucille Alonso, Abla-Mimi Edjossan-Sossou, Michael Gonzva, Fang-Yu Hu, Philippe Sohounou, Camille Vignote, Nicolas Ziv and Karim Selouane</b>	THE RESILIENCE PERFORMANCE ASSESSMENT (RPA), AN INNOVATIVE SOLUTION TO MEASURE THE BALANCE BETWEEN ADAPTATION AND MITIGATION INVESTMENTS FOR INFRASTRUCTURES, BUILDINGS AND TERRITORIES	RESALLIENCE by SIXENSE	France
11:00 11:25	<b>Jakub Ryzenko and Anna Nk</b>	PL CASE STUDY: EXPERIENCES OF USING DRONES AND MANNED AVIATION IN CRISIS OPERATIONS ON THE BASIS OF LAS2021 STATE FIRE SERVICE EXERCISE	Crisis Information Centre	Poland
11:25 11:45	COFFEE/TEA/WATER BREAK			
11:45 13:00	TIEMS ANNUAL GENERAL MEETING  <b>Chair: K. Harald Drager, TIEMS President</b>			
13:00 14:00	LUNCH			
14:00 15:15	SESSION 5 DECISION SUPPORT			

14:00 14:25	<b>Jeffrey Stern</b>	<b>KEYNOTE 1</b>  HOW FEMA'S EMERGENCY MANAGEMENT INSTITUTE ADDRESS HEALTH, CLIMATE AND ENERGY CHALLENGES	Superintendent   Emergency Management Institute   FEMA	USA
14:25 14:50	<b>Snjezana Knezic and Martina Baucic</b>	EMERGENCY DECISION SUPPORT SYSTEM PLATFORM: E-CITIJENS PROJECT	University of Split, Faculty of Civil Engineering, Architecture and Geodesy	Croatia
14:50 15:15	<b>Shayla Clarke and David Williams</b>	LIMITED ENGLISH PROFICIENCY PREPAREDNESS FIELDWORK		USA
15:15 15:35	<b>COFFE/TEA/WATER BREAK</b>			
15:35 17:00	<b>SESSION 6 RESILIENCE</b>			
15:35 16:00	<b>Thomas Robertson</b>	AI RISKS AND EMERGENCY MANAGEMENT	Thinking Teams and TIEMS Regional Director for North America	USA
16:00 16:25	<b>Dr. Efraim Laor</b>	EARTHQUAKES AND SUSTAINABLE INFRASTRUCTURE: NEODETERMINISTIC (NDSHA) APPROACH GUARANTEES PREVENTION RATHER THAN CURE	AFRAN - National Research Institute for Disaster Reduction, Holon Institute of Technology [HIT]	Israel
16:25 16:50	<b>Dukhi Sah</b>	SUSTAINABLE APPROACHES TO INFRASTRUCTURES IN RESILIENCE ERA	Retired Chief Technical Advisor, Bihar Police Building Construction Corporation, Patna,Bihar	India
16:50 17:00	<b>Roman Tandlich</b>	SUMMARY OF THE SECOND DAY OF THE CONFERENCE	TIEMS Regional Director for Africa	South Africa
1700	<b>END OF CONFERENCE DAY 2</b>			

## TIEMS 2021 Virtual Annual Conference Wednesday 8<sup>th</sup> December 2021

**Chairman: Jaroslav Pejcoch**

TIME	Presenter/Authors	Title	Organization(s)	Country
10:00 11:25	SESSION 7 PREPAREDNESS, RESPONSE AND RESILIENCE			
10:00 10:10	<b>Jaroslav Pejcoch</b>	INTRODUCTION OF CONFERENCE DAY 3 SESSIONS	TIEMS Secretary	Czech Republic
10:10 10:35	<b>Kyle King</b>	PROJECTING RESILIENCE - CLIMATE SECURITY IMPLICATIONS FOR NATIONAL SECURITY	Capacity Building International	USA
10:35 11:00	<b>Abbas Abu Shama Abdel Mahmoud</b>	PERSONAL EXPERIENCE OF LECTURING EMERGENCY MANAGEMENT IN THE SAFETY AND SECURITY HIGHER EDUCATION SPHERE	Freelance lecturer and professional in emergency management	Sudan
11:00 11:25	<b>Pär Eriksson</b>	CREATING WINDS OF CHANGE - ADAPTING AND TRANSFORMING THE CRISIS MANAGEMENT SYSTEM USING EXERCISES	Department of Defense Analysis (FOI), The Swedish Defense Research Agency	Sweden
11:25 11:45	COFFEE/TEA/WATER BREAK			
11:45 13:00	SESSION 8 ETHICS, RESILIENCE AND AWARENESS			
11:45 12:10	<b>Chidinma Iheanetu<sup>1)</sup>, Iveta Zvercova<sup>2)</sup>, Felix Kwabena Donkor<sup>3)</sup>, Martin Krause<sup>2)</sup> and Roman Tandlich<sup>1) 2)</sup></b>	THE CITIZEN SCIENCE APPROACH AS POTENTIAL MODEL FOR AN ETHICAL AND MULTI-DISCIPLINARY APPROACH TO DISASTER RISK MANAGEMENT IN SOUTH AFRICA AND BEYOND	Rhodes University <sup>1)</sup> Technical University of Liberec <sup>2)</sup> University of South Africa <sup>3)</sup>	South Africa <sup>1) 3)</sup> Czechia <sup>2)</sup>
12:10 12:35	<b>Amelie Grangeat<sup>1)</sup> and Alessandro Lazari<sup>2)</sup></b>	CITIZEN'S RESILIENCE AND PUBLIC WARNING SYSTEMS	F24 France F24 AG	France <sup>1)</sup> Italy <sup>2)</sup>
12:35 13:00	Michel Bour and Damien Ballereau	BOOSTING CITIZENS' AWARENESS WITH THE SUPPORT OF FIRE AND RESCUE PRACTITIONERS TO ACCELERATE IMPLEMENTATION OF THE SENDAI FRAMEWORK	SAFE Cluster	France
13:00 14:00	LUNCH			

14:00 15:15	SESSION 9 PUBLIC SERVICE AND EDUCATION			
14:00 14:25	<b>Steve Recca</b>	<b>KEYNOTE 2</b>  LEVERAGING RISK ASSESSMENTS IN A COMPLEX, MULTI-HAZARD ENVIRONMENT	Pacific Disaster Center	USA
14:25 14:50	<b>Eunice Païda Vhiriri<sup>1)</sup>, Yoland Irwin<sup>2)</sup>, Richard K. Laubscher<sup>1)</sup>, Michaela Přibíková<sup>3)</sup> and Roman Tandlich<sup>1,3)</sup></b>	PUBLIC SERVICE AND PRIVATE STAKEHOLDERS IN THE LISTERIOSIS OUTBREAK IN SOUTH AFRICA: SOME ETHICAL REFLECTIONS	Rhodes University <sup>1)</sup> Noroff University College <sup>2)</sup> Technical University of Liberec <sup>3)</sup>	South Africa <sup>1)</sup> Norway <sup>2)</sup> Czechia <sup>3)</sup>
14:50 15:15	<b>Joe Leitmann</b>	REIMAGINING PREPAREDNESS, RESPONSE AND RESILIENCE IN THE POST-COVID WORLD	University of California Disaster Resilience Network	USA
15:15 15:35	COFFE/TEA/WATER BREAK			
15:35 17:00	SESSION 10 PANEL ON INTERNATIONAL CERTIFICATIONS IN EMERGENCY MANAGEMENT Chair K. Harald Drager			
15:35 16:00	<b>K. Harald Drager</b>	TIEMS INTERNATIONAL CERTIFICATIONS - TQC & TQAC - STATUS AND FUTURE PLANS	<b>TIEMS President</b>	Norway
16:00 16:25	<b>Prof. N. Vinod Chandra Menon</b>	EMERGING TRENDS IN INTERNATIONAL CERTIFICATIONS IN EMERGENCY MANAGEMENT	Senior Advisor & Mentor, International Institute of Information Technology (ISquareIT), Pune, India	India
16:25 16:50	<b>Larry Porter</b>	VALIDATION OF QUALITY EMERGENCY MANAGEMENT ACADEMIC PROGRAMS THROUGH ASSESSMENT AND ACCREDITATION		USA
16:50 17:00	<b>K. Harald Drager</b>	SUMMARY OF THE THIRD DAY OF THE CONFERENCE	<b>TIEMS President</b>	Norway
1700	END OF CONFERENCE DAY 3			

## IMPETUS Day at TIEMS 2021 Virtual Annual Conference Thursday 9<sup>th</sup> December 2021

**Chairman Joe Gorman, SINTEF**

TIME	Presenter/Authors	Title	Organization(s)	Country
10:00 10:10	Joe Gorman	SESSION 11 INTRODUCTION ABOUT THE IMPETUS PROJECT INTRODUCING EACH SPEAKER CHAIRING Q&A AFTER EACH PRESENTATION	SINTEF	Norway
10:10 10:35	Matthieu Branlat	KEY RESULTS FROM H2020 PROJECT IMPETUS	SINTEF	Norway
10:35 11:00	Jelena Radošević, Krunoslav Katić and Mišo Mudrić	IMPETUS PUBLIC OPINION SURVEY ON ETHICAL ISSUES OF SMART CITY TECHNOLOGIES	Institute for Security Policies	Croatia
11:00 11:25	Sandro Bologna	IS YOUR SMART CITY A RESILIENT CITY?	TIEMS	Italy
11:25 11:45	COFFEE/TEA/WATER BREAK			
11:45 13:00	SESSION 12 IMPETUS PRESENTATIONS			
11:45 12:10	Nesrine Kaaniche <sup>1)</sup> and Joaquin Garcia-Alfaro <sup>2)</sup>	PRIVACY-PRESERVING CHALLENGES FOR URBAN SAFETY	Telecom SudParis <sup>1)</sup> Institut Polytechnique de Paris <sup>2)</sup>	France
12:10 12:35	Martina Ragosta <sup>1)</sup> , Matthieu Branlat <sup>1)</sup> , Giulia Canilli <sup>2)</sup> and Bruno Bonomini <sup>2)</sup>	VALIDATE SENSITIVE TECHNOLOGIES IN REALISTIC OPERATIONAL ENVIRONMENT	SINTEF <sup>1)</sup>  Comune di Padova <sup>2)</sup>	Norway <sup>1)</sup>  Italy <sup>1)</sup>
12:35 13:00	Tor Olav Grøtan <sup>1)</sup> , Andrea Vik Bjarkø <sup>1)</sup> , Osman Mohammad Ibrahim <sup>2)</sup> and Ian Simon Gjetrang <sup>2)</sup>	PUBLIC SAFETY IN SMART CITIES - A (TRANSITIONAL) RESILIENCE PERSPECTIVE	SINTEF <sup>1)</sup>  Oslo Municipality (Oslo Kommune) <sup>2)</sup>	Norway
13:00 14:00	LUNCH			



14:00 15:15	SESSION 13 IMPETUS PRESENTATIONS			
14:00 14:25	<b>Radu Popescu</b>	PLATFORM ARCHITECTURE FOR IMPETUS	SIVECO	Romania
14:25 14:50	<b>Paolo Mignone<sup>1)</sup></b> , Anisetti Marco <sup>2)</sup> , Claudio Ardagna <sup>2)</sup> , Costantino Mele <sup>1)</sup> , Alessandro Balestrucci <sup>3)</sup> , Chiara Braghin <sup>2)</sup> , Ernesto Damiani <sup>2)</sup> , Antongiacomo Polimeno <sup>2)</sup> , Donato Malerba <sup>1)</sup> and Michelangelo Ceci <sup>1)</sup>	BIG DATA INGESTION AND ANALYTICS FOR PHYSICAL THREAT INTELLIGENCE	Università degli studi di Bari <sup>1)</sup>  Università degli studi di Milano <sup>2)</sup>  Consorzio Interuniversitario Nazionale per l'Informatica - CINI <sup>3)</sup>	Italy
14:50 15:15	<b>Joaquín Luzón Tuells</b> and Berta Biescas	ETHICAL CHALLENGES IN THE SOCIAL MEDIA AI-DRIVEN THREAT DETECTION FOR CITIES AND CITIZENS	Insikt Intelligence	Spain
15:15 15:35	COFFE/TEA/WATER BREAK			
15:35 17:00	SESSION 14 IMPETUS PRESENTATIONS			
15:35 16:00	<b>Joe Levy</b>	IMPETUS EU PROJECT WEAPON DETECTION TOOL	CINEDIT	Switzerland
16:00 16:25	<b>Keren Saint-Hilaire<sup>1)</sup></b> and <b>Joaquin Garcia-Alfaro<sup>2)</sup></b>	ONTOLOGY-BASED ATTACK GRAPH ENRICHMENT	Telecom SudParis <sup>1)</sup> Institut Polytechnique de Paris <sup>2)</sup>	France
16:25 16:50	<b>Paolo Mocellin</b> , Matteo Bottin, Chiara Vianello, Giulio Rosati and Giuseppe Maschio	AN APPROACH TO A SAFE EGRESS FROM PUBLIC SPACES DRIVEN BY RISK PRINCIPLES	Università degli Studi di Padova	Italy
16:50 17:00	<b>Joe Gorman</b>	SUMMING UP AND CONCLUSIONS	SINTEF	Norway
1700	END OF IMPETUS DAY 4 OF THE CONFERENCE			

## TIEMS 2021 Virtual Annual Conference Friday 10<sup>th</sup> December 2021

**Chairman: Kyle King**

TIME	Presenter/Authors	Title	Organization(s)	Country
10:00 11:25	SESSION 15 COVID19 MODELING AND OPPORTUNITIES			
10:00 10:10	Kyle King	INTRODUCTION OF CONFERENCE DAY 5 SESSIONS	Capacity Building International	USA
10:10 10:35	Duncan Shaw and David Powell	KEYNOTE 3  OPERATIONALISING LOCAL RESILIENCE CAPABILITIES	University of Manchester	UK
10:35 11:00	Qu Guosheng	CAPACITY BUILDINGS OF USARS IN CHINA	National Earthquake Response Support Service (NERSS) and Ministry of Emergency Management	China
11:00 11:25	Chaim Rafalowski	PANDEMIC - NEW OPPORTUNITIES FOR EMERGENCY MEDICAL SERVICES	Magen David Adom Israel	Israel
11:25 11:45	COFFEE/TEA/WATER BREAK			
11:45 13:00	SESSION 16 ENVIRONMENT, TRAUMA AND INTERNATIONAL CRISIS			
11:45 12:10	Charles Kelly	BIGGER SHIPS, MORE CONTAINERS: AN EMERGING ENVIRONMENTAL DISASTER	Consultant	USA
12:10 12:35	Johnston Wong <sup>1)</sup> and Candy Zhou <sup>2)</sup>	TRAUMA-INFORMED RESPONSES TO EMERGENCIES IN THE DIGITAL ERA	BNU-HKBU United International College <sup>1)</sup> Social Workers Across Borders <sup>2)</sup>	China
12:35 13:00	Kyle King	THE 2021 TIEMS WEBINAR SERIES: COMMUNITY ENGAGEMENT	Capacity Building International	USA
13:00 14:00	LUNCH			

SESSION 17 URBAN AND PUBLIC SAFETY				
14:00 14:25	<b>Ze Zhao Liu<sup>1)</sup>, Wei Wang<sup>2)</sup> and Rui Ma<sup>3)</sup></b>	THRESHOLD EFFECT FOR REGIONAL EMERGENCY MANAGEMENT: AN ASSESSMENT BY THE SYSTEM SIMULATION APPROACH IN CHINA	Nanjing University <sup>1)</sup> Xi'an Jiaotong University <sup>2)</sup> Jiangsu Normal University <sup>3)</sup>	China
14:25 14:50	<b>Simona Cavallini</b>	A CONCEPTUAL FRAMEWORK TO ASSESS AND MEASURE SECURITY AND SAFETY IN URBAN AREAS	TIEMS Italian Chapter	Italy
14:50 15:15	<b>George Markowsky</b>	MODELING THE DELTA VARIANT OF COVID-19	Missouri University of Science & Technology	<b>USA</b>
15:15 15:35	<b>COFFE/TEA/WATER BREAK</b>			
15:35 15:45	<b>George Markowsky</b>	WELCOME TO TIEMS 2022 ANNUAL CONFERENCE EMMITSBURG, USA	Missouri University of Science & Technology	USA
15:45 16:00	<b>K. Harald Drager</b>	CONFERENCE SUMMARY	TIEMS President	Norway
16:00	<b>END OF CONFERENCE</b>			