

Social Computing and Crisis in the New Information Age

Programme & Biographies

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Table of Contents

1. Introduction	1
2. Biographies	9
a. Graham W. Archer	9
b. Mark Ashwell	10
c. Jack Callahan	10
d. Kathleen Carley	10
e. Guido Cervone	11
f. Claudio Cioffi-Revilla	12
g. Peter Colvin	12
h. Chris DiBona	12
i. Robert Evans	13
j. Rebecca Goolsby	13
k. Rick Grannis	14
l. Shamanth Kumar	14
m. Huan Liu	14
n. Corey Lofdahl	15
o. Erika Mann	15
p. Will Mayo	17
q. Fred Morstatter	17
r. Jürgen Pfeffer	17
s. Muttukrishnan Rajarajan	18
t. Eric Rasmussen	18
u. Chris Stace	19
v. Rudi Studer	19
w. Hazem Sumadi	19

x.	Edwin Vincent	20
j.	Marc van den Homberg	21
k.	Jack Zaeintz	21
3.	ISC Contact Details	22
4.	Location	0

1. Introduction

From October 8th to 9th in Brussels, participants of the “Social Computing and Crisis in the New Information Age” seminar will explore the role that social media and IT has had on disaster and crises situations as social media has become more prominent as a tool for communication. New social media and IT has redefine the way crises are understood on the ground as people have new communication tools and platforms, such as posting information about the situation and response efforts.

Social media has become an international asset to understanding a variety of crises on the ground. Yet, these tools are not completely understood and need to be further explored, especially the implications for international organizations with regards to disaster coordination, accuracy and security. As part of an exploration of the role of social media in disasters and crises management, the major outcome of this event will be to assess the new social media tools to determine the implications for disaster coordination and how it can quickly and efficiently assist the communities and individuals on the scene.

To do this, the two day seminar will discuss accessing new social media tools and crowdsourcing platforms to determine its implications for disaster and crisis management coordination. The discussions will explore ways how these social tools can assist communities and individuals on the scene, particularly how IT advancements can provide better coordination tools and techniques. Some of the themes include coordinating global health responses, the role of industry, how to prepare before a crisis hits, and privacy and secure sharing.

2. Biographies

a. Graham W. Archer

Graham Archer is the Founder and current CEO of SYNOGI, a company dedicated to enabling cross domain, multi-agency and coalition partner knowledge synergy for clients in national security, civil government and industry. Within Synogi Graham uses his broad coalition military and civil, operational, technical, scientific and capability management experience to consult and lead multiple knowledge synergistic initiatives centered upon the proven Capability Development Framework (CDF) that he led the development of within the Office of the Assistant Secretary for Defense (OASD).

Currently within OASD Graham is supporting the Directorate Joint Capability Technology Demonstration (JCTD) to include Humanitarian Assistance and Disaster Relief (HA/DR) and working CDF Avatar blueprints to map out the environment. This rapid capture, visualization and analysis will identify hot spots and enable understanding.

Between Mar 09 and Mar 12 Graham was the Director of Coalition Interoperability for SRA International, where he introducing a number of new industry initiatives and was a PM in addition to being a key coalition and interoperability advisor to DoD, OASD Research and Engineering, Director Joint Interoperability where he lead the Directors CDF initiative. Thus both within Industry and the Government he has advised a growing band of CDF proponent's, including the National Guard Bureau, US Coast Guard, USMC, Project Guardian and EW/cyber to cost effectively grow true capability.

A former Navy Commander, Graham retired from the Royal Navy in 2008, having completed over 33 years of service. He completed operational tours in the maritime, land and air domains serving onboard Mine Hunters, Destroyer and Carriers and operated on Sea Harrier Jet and Commando Sea King Helicopter Squadrons. Away from the sharp end he held a succession of acquisition, engineering, logistic and capability management assignments in the joint and single service domains and he held a critical position in National and International cross service and platform network defense as the capability manager of the UK joint data network, responsible for Air Communications, Air Traffic Control, Tactical Data Links, Wide Band and Integrated Broadcast Networks.

During his final years of service Graham established a new coalition interoperability liaison office in the US OUSD Acquisition Technology and Logistics. Here in addition to enabling a coherent, logical and dynamic link between US, Coalition and UK he led the creation of the Coalition CDF (CCDF), which the DoD continues to work as a baseline capability capture methodology for the Department and coalition partners.

Graham is the founding father and Emeritus Chairman of the International Data Link Society and has led multiple non-profit organizations in Academia and industry. He holds a Bachelor's honors Degree in Engineering is a first class graduate of Britannia Naval College and in addition

to being a post graduate lecturer and leadership instructor is a respected conference presenter and moderator. He lives in Fredericksburg, Virginia with his wife and children.

b. Mark Ashwell

Mark Ashwell is currently the managing partner of MLA Consultancy 42 Ltd. His expertise is in Intelligence, Command and Control and Space Operations. Previously he served 28 years In the Royal Air Force where he forged and commanded the RAF Air Battle Management Organization following in the aftermath tragic events of 9/11. As an Air Commodore he was responsible, as Director Intelligence Capability and Strategy, for the restructuring of Defence Intelligence capabilities and processes to adapt to modern, fused, multi source intelligence operations. On leaving the Air Force in 2009 he joined DigitalGlobe as Vice President International Strategy to help drive the move from imagery to insight. He is now a consultant on Intelligence, Command and Control, Space and Information capabilities working with MOD. His current focus is on the exploitation of large data sets from open sources for awareness and decision making. Mark is a graduate of the University of London and Alumni of the NATO Defence College. He is married to Alison and they live with their daughter Sophie in High Wycombe UK.

c. Jack Callahan

Dr. John "Jack" Callahan is the Associate Director for Information Dominance at the Office of Naval Research Global (ONRG) London UK office whose portfolio includes knowledge discovery, C4ISR, communications, and cybersecurity. He is currently on an Intergovernmental Personnel Act (IPA) assignment to ONRG from the Johns Hopkins University Applied Physics Laboratory (JHUAPL) in Laurel, Maryland USA. Before joining Johns Hopkins in 2006, Dr. Callahan was VP for Engineering and CTO of BDMetrics, Inc. and Sphere.com from 2000-2006 where he managed social networking systems for the world's largest trade shows such as the Consumer Electronic Show (CES), PackExpo, and National Association of Broadcasters (NAB). Prior to 2001, he was a tenured Associate Professor in the Department of Computer Science and Electrical Engineering at West Virginia University (WVU) in Morgantown, WV USA and research director at the NASA Independent verification and Validation (IV&V) Facility in Fairmont, WV USA. He completed his PhD in Computer Science from the Department of Computer Science at the University of Maryland, College Park USA. Dr. Callahan has worked for Xerox Corporation in Palo Alto, CA USA, NASA Goddard Space Flight Center in Greenbelt, MD USA, and the Air Force Data Services Center (AFDSC) and IBM Corporation.

d. Kathleen Carley

Dr. Carley is a Professor of Computer Science in the Institute for Software Research, Director of the Center for Computational Analysis of Social and Organizational Systems at Carnegie Mellon

University, and CEO of Carley Technologies Inc. aka Netanomics. She received her Ph.D. in Mathematical Sociology from Harvard University, and her undergraduate S.B. degrees in Economics and Political Science from MIT. Dr. Carley is a senior fellow of the IEEE. She received the Simmel award in 2011 for outstanding contributions to Network Science and Social Network Analysis from the International Network for Social Network Analysis. She received a lifetime achievement award from the American Sociological Association's Mathematical Sociology section. She has served on multiple NRC committees, often associated with modeling and the US military needs.

Dr. Carley's research combines cognitive science, sociology, and computer science to address complex social and organizational issues.

Her most notable research contribution was the establishment of Dynamic Network Analysis (DNA). Her research on DNA has resulted in tools for analyzing large-scale dynamic networks and various agent-based dynamic-network simulation systems. Her group has developed tools for extracting networks from text (AutoMap), simulating epidemiological models (BioWar), and simulating changes in networks and the diffusion of information and beliefs (Construct). Her ORA system is one of the premier network analysis and visualization engines supporting geo-temporal analysis of high dimensional network data even that which is dynamic and embedded spatially. Illustrative projects include disaster response modeling, social media assessment, counter-terrorism modeling, counter-narcotics modeling, assessment of design of public-health departments, and crisis response.

e. Guido Cervone

Dr. Guido Cervone is associate professor of geoinformatics in the Department of Geography and Institute for CyberScience at the Pennsylvania State University. He is also affiliate scientist with the Research Application Laboratory (RAL) at the National Center of Atmospheric Research (NCAR). He sits on the advisory committee of the United Nation Environmental Programme (UNEP), Division of Disasters and Early Warning Assessment (DEWA). His research is currently being funded by the Department of Transportation and by the Office of Naval Research.

His research expertise is in machine learning and geoinformatics, and his main interest is the mining of spatial and temporal remote sensing, model and social media big data associated with natural, man-made, and technological hazards. He worked on the theoretical development and implementation of symbolic and evolutionary machine learning systems. His main research focuses on 'filling the gaps' in remote sensing and model data by extracting knowledge from social media. He sailed over 4000 offshore miles.

f. Claudio Cioffi-Revilla

Claudio Cioffi-Revilla is Professor of Computational Social Science, founding Chair of the Computational Social Science Department, and Director of the Mason Center for Social Complexity. His research focuses on quantitative models of conflict, disasters, and complex social systems, with funding from NSF, ONR, and DARPA. He has published seven books and over seventy peer-reviewed publications. He serves at the State Department as Jefferson Science Fellow of the National Academy of Sciences, and as Associate Scientist at the Smithsonian National Museum of Natural History. He is co-founder, past President of the Computational Social Science Society of the Americas. His latest book is entitled *Introduction to Computational Social Science: Principles and Applications* (Springer-Verlag: in press, 2014).

Dr. Cioffi is presently involved with projects aimed at bringing science and technology to bear on fundamental research and applied policy issues related to humanitarian assistance and disaster relief (HA/DR). Aspects of this effort involve advanced data sets, analytical tools, simulation models, and geospatial methodologies aimed at advancing the field of HA/DR science and analytics. Complex crises remain at the center of his research agenda, including operational analysis, methodological tools, and basic research perspectives.

g. Peter Colvin

Mr. Colvin is the Director of Humanitarian Assistance & Human Security Programs for the Pacific Disaster Center (PDC). He is responsible for PDC efforts to improve the development and delivery of unique information services in support of humanitarian assistance/disaster relief (HADR) and human security initiatives within the DoD, civil agencies and internationally.

Specializing in remote sensing and multi source data analysis, Mr. Colvin has over thirty years experience in developing and applying geospatial information technologies addressing existing and emerging human security, environmental and disaster management challenges. For the last five years he has been based on Oahu, HI working closely with USPACOM, its component commands and its direct reporting units.

h. Chris DiBona

Chris DiBona is the Director of Open Source for Mountain View, Ca. based Google. His teams oversees license compliance and support the open source developer community through programs such as the Google Summer of Code and through the release of open source software projects and patches. In the public sector space, he looks after Google Moderator and Google Elections.

Mr. DiBona is an internationally known advocate of open source software and related methodologies. He occasionally appears on the This Week in Tech and the This Week in Google

podcasts. He is a visiting scholar at the MIT Sloan School of Management and has a masters in software engineering from Carnegie Mellon University. Additionally, he serves on a number of technical advisory boards.

Before joining Google, Mr. DiBona was an editor and author for the website Slashdot.org . Additionally, he coedited the award-winning essay compilations "Open Sources" and "Open Sources 2.0" and writes for several publications. He was the host of Floss Weekly with Leo Laporte and made a number of appearances on TechTV's "The Screensavers" and on the Cranky Geeks.

i. Robert Evans

Robert Evans has built a substantial career in intelligence, having begun as an Intelligence Officer for the UK Armed Forces, including operational secondments across National intelligence infrastructure. Robert worked on the Olympic project for three years, as the Head of Intelligence for the Olympic Delivery Authority (ODA) and London Organising Committee of the Olympic and Paralympic Games (LOCOG). Robert successfully managed a specialist team delivering venue and event specific threat and risk assessments for all high profile events during build-out and operational delivery of the Games. This including responses to crisis scenarios such as the London Riots in 2011. Currently, Robert is the Business Manager at IMSL where he is responsible for managing a team of junior consultants to deliver innovative risk management solutions for FTSE 100 clients.

j. Rebecca Goolsby

Dr. Rebecca Goolsby is a program officer at the Office of Naval Research. She has a doctorate in cultural anthropology from the University of Washington, with specialities in political economy and social change, economic development, race, class and gender issues, civil violence and religious conflict, and culture areas of Southeast Asia and East Africa. She developed the first program on social network analysis and computational social science in the Department of Defense, beginning with seminal work on Al Qaeda in 2000, following the U.S.S. Cole incident. A former Fulbright scholar to Thailand, she has received a special commendation from the U.S. Navy for her pioneering work in social network analysis and counter-terrorism scholarship. In 2008, she began a new project in social media, disaster and crisis analytics at ONR, combining social networks, modeling, computer science and social science with multi-disciplinary approaches to complex humanitarian disasters and emergencies. Her most recent published work on social behavior and social media, "On Cybersecurity, Crowdsourcing and Social Cyberattack," was published in October 2012

(source:<http://www.wilsoncenter.org/publication/cybersecurity-crowdsourcing-and-social-cyber-attack>) by the Woodrow Wilson Center for International Scholarship.

k. Rick Grannis

Dr. Rick Grannis has worked at the RAND Corporation, served on the faculties of both Cornell University and UCLA, and is currently at the University of California at Irvine. He pioneered the study of how the design of street geography guides and constrains the evolution of neighbor networks and the emergence of neighborhood community. His book *From the Ground Up:*

Translating the Layered Stages of Neighbor Networks into Neighborhood Communities, published by Princeton University Press, applied both ethnographic and chain referral methodology as well as mathematical social influence models to the study of neighbor networks in 70 distinct neighborhoods. His forthcoming book, *The Contagion of Cheating and Networked Ethics* explores the varied ways in which both the direct and indirect influence of one's peers profoundly impacts one's own cheating behavior. In addition, he has published numerous other articles applying social network theory, network sampling methodology, complexity theory, and consensus models to substantive issues. He has served the academic community on the editorial board of both the *American Journal of Sociology* and *Contemporary Sociology* focusing on computational social science and mathematical methods. He received his Ph.D. in Mathematical Behavioral Sciences and Social Network Analysis from U.C. Irvine.

l. Shamanth Kumar

Shamanth Kumar is a Ph.D. Student in Computer Science at Arizona State University, and is interested in social media mining, online user behavior analysis, and information visualization. He obtained his B.E in Information Science and Engineering from Visveswaraiah Technological University, India. He works on social media based data analysis tools targeted towards information gathering and information analysis during Humanitarian Assistance/Disaster Relief events. He is the Chief Architect of TweetTracker (<http://tweettracker.fulton.asu.edu/>), which is a Twitter data aggregation and analysis system. He also works on TweetXplorer, which is an advanced visual analytics system for Twitter data. He has recently published a book, *Twitter Data Analytics*, on collecting, managing, analyzing, and visualizing Twitter data. He has published research papers in several peer-reviewed conferences and workshops. He has also served as an external reviewer for various conferences and journals. He has served as a Program Committee member at SBP 2013, IJCAI 2013, and SBP 2014. A full list of his publications and updated information can be found at <http://www.public.asu.edu/~skumar34/>

m. Huan Liu

Dr. Huan Liu is a professor of Computer Science and Engineering at Arizona State University. He obtained his Ph.D. in Computer Science at University of Southern California and B.Eng. in Computer Science and Electrical Engineering at Shanghai JiaoTong University. Before he joined ASU, he worked at Telecom Australia Research Labs and was on the faculty at National University of Singapore. He was recognized for excellence in teaching and research in Computer

Science and Engineering at Arizona State University. His research interests are in data mining, machine learning, social computing, and artificial intelligence, investigating problems that arise in many real-world, data-intensive applications with high-dimensional data of disparate forms such as social media. His well-cited publications include books, book chapters, encyclopedia entries as well as conference and journal papers. He serves on journal editorial boards and numerous conference program committees, and is a founding organizer of the International Conference Series on Social Computing, Behavioral-Cultural Modeling, and Prediction (<http://sbp.asu.edu/>). He is an IEEE Fellow and an ACM Distinguished Scientist. Updated information can be found at <http://www.public.asu.edu/~huanliu>.

n. Corey Lofdahl

Dr. Corey Lofdahl is a Senior Scientist with Charles River Analytics. Dr. Lofdahl's areas of expertise include simulation modeling, spatial econometrics, and social science theory with specializations in foreign policy, trade economics, and quantitative methods. Upon joining Charles River, Dr. Lofdahl spent 6 months in Afghanistan working with US Army Special Forces as a quantitative analyst where he focused on Counterinsurgency (COIN), Village Stability Operations (VSO), and Afghan Local Police (ALP) questions. Dr. Lofdahl currently is the Principal Investigator for the DARPA ASPEN project, which creates anonymous social networks based on behavioral theory, and the AFRL SUREFIRE project, which uses simulation to train fighter pilots.

Dr. Lofdahl holds B.S. in electrical engineering from the University of Colorado at Boulder, an Sc.M. in computer science from Brown University, an S.M. in international relations from MIT, and a Ph.D. in international political economy from the University of Colorado at Boulder. Prior to joining Charles River, he worked on a wide range of defense related projects as a Senior Scientist and Branch Manager at SAIC's Simulation and Information Technology Office and a Principal Research Engineer at BAE Systems' Advanced Information Technologies (AIT) group, both in Burlington, MA. While at BAE, Dr. Lofdahl served as the lead modeler for the Integrated Battle Command (IBC) project-later called the COMPOEX-where he implemented a wide range of DIME, PMESII, and COIN models. He is the author of *Environmental Impacts of Globalization and Trade: A systems study* (MIT Press, 2002).

o. Erika Mann

Erika Mann heads Facebook's policy office in Brussels. Having joined Facebook's Global Public Policy Team in October 2011, she is the company's lead spokesperson for EU affairs.

Erika is also a member of ICANN's Board of Directors and chairs its audit committee. She sits on the advisory board of the European Policy Centre as a Vice President, and on the board of the

Max Planck Institute for Sonnensystemforschung, which deals with solar science research. She is also a non-resident Senior Fellow of the Atlantic Council, and a Trustee of Friends of Europe.

Prior to assuming her current position at Facebook, Erika was the Executive Vice President for the Computer & Communications Industry Association in Brussels (2009-2011). In 2010 she established ErikaMann SPRL, her own consultancy in Brussels. Also in 2010 she was the Chairperson of the evaluation group for the Risk-Sharing-Finance Facility (RSFF), a risk based loan-financing instrument governed by the European Investment Bank.

Erika is perhaps best known for her work at the European Parliament, as she was a member of this institution between 1994 and 2009 elected on the list of the European Socialist Party (PES). During these years she sat in the European Parliament's Committee of Industry, Research and Energy, where she focused on R&D issues, the digital economy, telecommunications and Internet policy. As a result, she has extensive knowledge of the ICT and telecoms sectors, as well as related European regulatory frameworks. She is also one of the founding members of the European Internet Foundation, a platform that she chaired until 2009.

While in the European Parliament, Erika also developed an expertise in transatlantic, trade and WTO issues, as a coordinator in the International Trade Committee. She was also a Member of the Delegation for Relations with the United States; a Speaker of the Committee for International Trade (2004-2009); the European Chair of the Transatlantic Policy Network (2003-2008); and a Member of the Transatlantic Task Force on Trade, a joint initiative of the Swedish Ministry for Foreign Affairs, the European Centre for International Political Economic, and the German Marshall Fund of the United States. She was also the Chairperson of the Joint Board coordinating WTO matters between the Committee on International Trade and the United Nations Inter-Parliamentary Union.

Moreover, during her time in the European Parliament she was actively involved in the negotiations for free trade agreements between the European Union and various Asian, Latin American and African states. She served as the Chairperson of the Parliament Delegation with Mexico (2005–2009), as well as member of the Euro-Latin American Parliamentary Assembly. Erika has also served in European Parliament delegations to Ukraine, Moldova, Belarus, the EFTA Countries, and South Asia.

Erika used to run her own consultancy, PhilTec, whose operations came to an end when she was elected to the European Parliament in 1994.

Born in Leipzig in 1950, Erika has a degree in social sciences from the University of Hannover. In addition to the above, Erika is also a lecturer and the author of numerous publications on trade, research, transatlantic relations, and Internet related topics. She is an academician of the International Informatisation, an associated Member of the United Nations. She received awards from the European-American Business Council for her exceptional transatlantic commitment, as well as from the German Bundesverdienstkreuz am Bande.

p. Will Mayo

Will Mayo is the Managing Director of the Washington, DC office for Gnip. In this role, Will is responsible for identifying new opportunities for public sector and professional services organizations to leverage social media data to better understand and improve customer relationships. He is passionate about data and analytics and believes there is limitless potential for improving business decisions with the use of social data.

Prior to joining Gnip, Will served as a Senior Manager in Deloitte Consulting's Strategy and Operations group. In this capacity, Will provided strategic planning, customer relationship management, and data analytics expertise to address various client needs.

Will has a BS in Industrial and Systems Engineering from Virginia Tech and MBA from the University of Colorado - Boulder.

q. Fred Morstatter

Fred Morstatter is a PhD student in computer science at Arizona State University in Tempe, Arizona. He is a research assistant in the Data Mining and Machine Learning (DMML) laboratory. Fred won the Dean's Fellowship for outstanding leadership and scholarship during his time at ASU. He is the Principal Architect for TweetXplorer, an advanced visual analytic system for Twitter data. He has also worked on TweetTracker. Among his publications is an ICWSM paper, 2 KDD demo papers, an article in IEEE Intelligent Systems, and a book: Twitter Data Analytics. A full list of publications can be found at <http://www.public.asu.edu/~fmorstat>. Contact him at fred.morstatter@asu.edu.

r. Jürgen Pfeffer

Jürgen Pfeffer earned a B.S. degree in Computer Science, an M.S. degree in Computer Science Management, and a Ph.D. degree in Business Informatics from Vienna University of Technology. He was working in industry and non-university research institutes for ten years before he joined the Institute for Software Research at Carnegie Mellon University in Pittsburgh (USA) as a Post-Doctoral Associate in December 2010. Since September 2012 Jürgen Pfeffer has been an Assistant Research Professor in the School of Computer Science at Carnegie Mellon University.

Pfeffer's research focus lies in the computational analysis of organizations and societies with a special emphasis on large-scale systems. He is particularly interested in methodological and algorithmic questions as well as challenges arising from analyzing such systems. His research combines traditional network analysis and dynamic network analysis theories and methods with up-to-date science from the areas of visual analytics, geographic information systems, system

dynamics, and data mining. Pfeffer's main interest in the context of social media research is dynamic analysis and the assessment of change with respect to content and structure.

s. Muttukrishnan Rajarajan

Muttukrishnan Rajarajan received the BEng and PhD degrees from City University London in 1994 and 1999 respectively. He then worked at the same institute as a postdoctoral research fellow on a Ministry of Defence funded research project. He moved to Logica UK in 2000 to work as a Network Security consultant. He joined City University London back in 2002 where he is currently a full Professor and heads the Information Security Research Group. He has research expertise in the areas of privacy preserving techniques, mobile security and Cloud security. He acts as an advisor to the government of India research laboratories in the area of cyber security. He is a visiting professor at the British Telecommunications (BT) security innovation laboratories, UK. Professor Rajarajan is a Senior Member of Institute of Electrical and Electronic Engineers and is a member of the academic advisory board of the institute of information security professionals (IISP). He has been involved in several recent policy debates in the area of cyber security. He has published more than 150 journal and conference papers and has recently published a book entitled Mobile Security and Privacy. He is in the advisory board of several start-up companies in the area of Cloud security and identity assurance. He serves on several journal editorial boards and international conferences programme committees. More details can be found at www.staff.city.ac.uk/~raj

t. Eric Rasmussen

Eric is an Internal Medicine physician with a European Master's in Disaster Medicine. He currently serves as Managing Director for Infinitum Humanitarian Systems (IHS) in the US and Escudo de Proteccion al Ambiente (EPA) in Mexico. Both are private sector Social Businesses on a "Profit for Purpose" model focused on public health and capacity building in the developing world. His clients include FEMA, the US State Department, and the Government of Mexico. He is also appointed Research Professor in Environmental Security and Global Medicine at San Diego State University, and is an instructor in disaster medicine for both the EU's Disaster Academy in Bonn, Germany and the Institute for Disaster Preparedness in Beijing, China.

He previously spent 25 years on active duty with the US Navy before retiring to accept Google's offer to serve as the founding CEO of their TED Prize NGO called InSTEDD. He remains Chairman of the InSTEDD Board of Directors. He has spent most of twenty years pursuing improved humanitarian support and capacity building within informal settlements and post-conflict environments and welcomes conversation on the topic at RasmussenE@IHS-i.com.

u. Chris Stace

Chris Stace is a capability programme manager within the European Defence Agency. His focus is Network Enabled Capability and the associated subject of Information Management, both within the context of the EU's Common Security and Defence Policy.

Chris joined EDA in 2012 having served for 26 years in the Royal Air Force. His diverse career has spanned operational J6 and logistics, CIS acquisition and change/project management. More recently, he had a short tour in the UK MoD's C4ISR Capability Directorate (NATO, EU and Bi-lateral Engagement) preceded by a tour in the EU Military Staff where he was the lead for Cyber Defence, operational wide area networks, NEC and associated concept development work.

Chris now commutes weekly between Norfolk (in the UK) and Brussels and is greeted with great enthusiasm each Friday night by his black Labrador dog, Monty, and somewhat less enthusiastically by the rest of his family.

v. Rudi Studer

Rudi Studer is Full Professor in Applied Informatics at the Karlsruhe Institute of Technology (KIT), Institute AIFB, Germany. In addition, he is director at the Karlsruhe Service Research Institute (KSRI) as well as at the FZI Research Center for Information Technology. His research interests include knowledge management, Semantic Web technologies and Web 2.0, data and text mining, Big Data and Service Science.

He obtained a Diploma in Computer Science at the University of Stuttgart in 1975. In 1982 he was awarded a Doctor's degree in Mathematics and Informatics at the University of Stuttgart, and in 1985 he obtained his Habilitation in Informatics at the University of Stuttgart. From 1985 to 1989 he was project leader and manager at the Scientific Center of IBM Germany.

He is involved in various national and international cooperation projects, among others the DFG Graduate School Information Management and Market Engineering (IME), the EU Network of Excellence on Large-Scale Data Management (PlanetData) as well as the EU projects XLike (Cross-lingual Knowledge Extraction) and Render (Reflecting Knowledge Diversity).

He is former president of the Semantic Web Science Association (SWSA) and former Editor-in-chief of the Journal Web Semantics: Science, Services, and Agents on the World Wide Web.

w. Hazem Sumadi

Advocate Hazem Sumadi is the director of the Arab Jordanian Center for studies (ARGOCS) Amman Jordan whose portfolio includes conducting research on important issues in the social sciences and humanities that concern the society of Jordan and Arabic countries.. It supplies scientific analysis to the policy-making process of the Governments and non-government

organizations to build and develop national and regional plans and projects aims to develop and improve societies and humans abilities .He is currently partner lawyer at Taamneh Law Firm located in Amman, before Joining Taamneh Law Firm he was assigned as Prosecutor General f at Jordan Attorney General Department. Hazem sumadi is a retired Police Colonel who occupied during his police service many key positions from 1996 -2007 (Head of the legal division in Capital Security Region-Jordan, Chief Of Police District, Prime Coordinator for PSD on the National Level, Chief Of Judicial Enforcement Department in Jordan PSD . Sumadi participated in tow UN missions (UNTAIT \ East Timor mission 2003-2004) where he worked as lecturer& instructor at the UN Police College, (UNIPTF Mission - Bosnia Herzegovina 1996-1997 worked as Regional chief personnel administration / TUZLA Region He was also a lecturer at Police Science College and Royal Police Academy in Amman and Legal Human Rights Advisor for the Directorate of Rehabilitation & Reform of Prisoners in Jordan. He completed his Masters in Diplomatic Studies and Higher Diploma in Diplomatic and Foreign Service from Jordan Institute of Diplomacy, at Jordan University, Amman Jordan. He holds BA in Law Sciences and Diploma in Police & Military Sciences from Mu'tah University.

x. Edwin Vincent

Mr .Vincent is the head of Soft Power Solutions, LLC. SPS is a limited liability company headquartered in Northern Virginia and Honolulu, Hawaii. Its goal is to apply Soft Power practices that create sustainable Public-Private Partnerships and craft enduring capacities to mitigate the impacts of disasters, crisis events, manage change, and reduce risks.

It was on the middle-east battlefield in late 2001 where he recognized soft power's potential. Years later he was called to active duty to assist U.S. Pacific Command as the Assistant J5 to develop a peacetime military doctrine around the concept of soft power. Mr. Vincent recently retired from 37 years of military service as an Air Force officer at the rank of Brigadier General. Subsequently, Mr. Vincent founded SPS to address complex Soft Power challenges that promote a “whole of society” approach.

Mr. Vincent currently serves on the board of several organizations.

Most notable are the Minuteman Institute for National Defense Studies (MINDS), the 442nd Go For Broke National Education Center, and the Asia Pacific Economic Cooperation's (APEC) Disaster Response Risk Reduction sub-committee. He ia also a recipient of Bright Future Society's Certificate of Exemplary Service to Pakistan's flood victims presented by Dr. Farooq Satter, Federal Minister Overseas Pakistan.

j. Marc van den Homberg

Marc van den Homberg is the co-founder and leader of the ICT for Development (ICT4D) team at TNO, the Dutch Research and Technology Organisation. Marc initiates, with his team, multistakeholder partnerships for pro-poor ICT related innovations in developing countries. Marc works as a senior consultant to improve networked organizations through ICT and media, information management, information creation, and coordination and collaboration mechanisms in the disaster management and comprehensive approach domain. Marc has project-related field experience in Burundi, Burkina Faso, India, Nepal and Vietnam. He is a technical team member of the NATO HFM 241 exploratory team on Social Media and Information Technology for Disaster and Crisis Response. In relation to his duties within TNO, Marc is a reserve officer in the Dutch 1 Civil Military Interaction Command. Marc participated as a liaison officer in exercise Common Effort of the 1 German Netherlands Corps, where sixteen national and international organizations explored their optimal position in the civil-military interaction spectrum, and he participated in a Military Assistance exercise in Burkina Faso. Marc holds an MBA from the Rotterdam School of Management (specializing on entrepreneurship in emerging economies) and a PhD in physics from Delft University of Technology. Marc started his career at the R&D department of the incumbent operator in the Netherlands, KPN, and at BASE, the Belgian daughter of KPN.

k. Jack Zaeintz

Jack Zaeintz is a senior scientist at Soar Technology working at the intersection of cognitive systems and human decision-making. His work in adaptive user interfaces for geospatial analysis and command decisionmaking has resulted in new role and mission adaptive Common Operating Picture management software and data visualization techniques that entered limited operational usage by the US Navy in 2010 and are planned for fleet wide deployment in 2015. His current work includes research into the applications of cognitive and social psychology in the analysis of human security with the goal of developing new tools to support operational planning and crisis response. Mr. Zaeintz has a Masters in Human Computer Interaction from Carnegie Mellon and over a decade in applied DoD research.

3. ISC Contact Details

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