



Magnus Arvidson is a Fire Protection Engineer working at RISE Research Institutes of Sweden since 1991. He served on the NFPA 750 technical committee on installation of water mist fire protection systems from 1993 to 2000, has been active in the Sub-Committee on Fire Protection at the International Maritime Organization, and has been involved in a technical committee at CEN developing a standard for water mist systems. He is a member of the Scientific Council of the International Water Mist Association.



Kerry Bell is a Principal Engineer and Corporate Fellow at UL specializing in fire sprinkler and pump equipment. He obtained his BSc in Fire Protection and Safety Engineering from Illinois Institute of Technology and MBA from Northern Illinois University. Kerry is currently a member of more than ten NFPA technical committees including Residential Sprinkler Systems, Sprinkler System Discharge Criteria, Correlating Committee on Automatic Sprinkler Systems and Stationary Fire Pumps. He is a former chair of the NFPA Standards Council.



Joachim Böke completed his PhD in engineering in 1994. From 1994 to 2005 he worked for VdS in different positions before joining Viking / Minimax Viking. There he has also held different positions and is currently Executive Director of Innovation at Minimax Viking R&D. Joachim is a member of many associations and standard groups. He chairs the EFSN Technical Committee and Working Group 10 of CEN TC 191, which is responsible for water mist standards.



Mike Bosma started in the sprinkler industry in 1983, joining Viking Corporation in 1993 where he has held senior roles in R&D, distribution, and manufacturing. He has been actively involved on several industry committees for the American Fire Sprinkler Association, the National Fire Sprinkler Association, the National Fire Protection Association (NFPA 25, 76, & 15), and the Factory Mutual Insurance advisory council. Mike holds NICET certification in automatic sprinkler design and a Bachelor's degree from Hope College.



Steve Bradley has over 40 years' experience in the fire industry. He worked many years for a leading global fire & security company, first for 20 years in the contracting/services business followed by 20 years in the product sales business where he became a Vice President Sales & Business Development for Europe, Middle East and Africa (EMEA). Steve has worked and lived in Canada, The Netherlands and UK and has held responsibility for ASIA. He is now responsible for Potter Sprinkler monitoring and corrosion prevention products across EMEA.



Gaetano Coppola is Managing Director of Jensen Hughes, based in Milan, and responsible for business in continental Europe and North Africa. He is a member of the SFPE and its Italian Chapter. Gaetano is a member of Italian standards committees for active fire protection systems and for water-based fire protection systems and the latter's liaison to the Italian committee on cultural heritage. At a European level he is a member of CEN TC/191/WG5 Sprinkler Systems and is its liaison to CEN TC/346 Conservation of Cultural Heritage.



Russ Fleming is the former Managing Director of the International Fire Suppression Alliance, a past president of the National Fire Sprinkler Association and of the SFPE. He has served on the NFPA 13 sprinkler committee for over 30 years, is a former member of the NFPA Board of Directors, and past chairman of its Standards Council. Russ has served on the fire protection engineering program at Worcester Polytechnic Institute, published hundreds of articles on sprinklers, and written chapters in NFPA and SFPE technical handbooks.



Nino Frisina is the Managing Director of Marioff Italy. He has almost 20 years' experience in fire-fighting systems, with a particular focus on industrial applications in the Oil & Gas sector. A mechanical engineer, he has dealt for years with Water Mist fire protection systems, previously as the Sales Director at Marioff Italy.



Jim Glockling is the Technical Director of the Fire Protection Association. A chemical engineer, he did his PhD in nuclear engineering at the UK Atomic Energy Authority. Jim has been a university lecturer in Chemical Engineering & Fire Engineering and a Forensic Fire Investigator. Prior to the FPA he was at LPC and BRE. Today his team conducts research on fire suppression for the Association of British Insurers, major UK insurers and the Ministry of Defence. Jim is responsible for the UK insurer research budget through the RISCAuthority scheme.



Håvard Grønstad is Fire Safety Manager at Finance Norway, an organization that represents Norwegian Insurance. After graduating as a mechanical engineer he entered the sprinkler business in 1981. His experience covers design, installation, product knowledge, management, different loss prevention measures, cooperation with public authorities, standardization and the fire protection business in general. He is a member of national and CEN sprinkler standards committees.



Johan Hoogeweg has a degree in structural engineering and began his career as a fire safety officer in the Dutch fire brigade. Since 2006 he has been an independent fire safety consultant, developing strategies for complex buildings. He specialises in fire safety systems and has published papers on third-party certification and the use of sprinklers to reduce structural fire protection demands.



Victoria Hutchison is a Research Project Manager at NFPA's Fire Protection Research Foundation, focussing on fire hazards associated with the reliability and effectiveness of suppression and detection systems, the hazards affiliated with emerging technologies (e.g. energy storage systems), data collection and analytics. Victoria is a graduate of Oklahoma State University and Worcester Polytechnic Institute. She has also worked for a fire protection engineering firm, is a member of SFPE and associate editor of the SFPE Handbook.



Haukur Ingason has over 30 years' experience of research in fire science and engineering. His research work is mainly on tunnel and industrial fires, where suppression systems are vital. Today Professor Ingason is a Manager at RISE and Adjunct Professor at Lund University.



Daan Jansen is Associate Director of the fire safety and security team at Royal HaskoningDHV. He has a MSc from Eindhoven University of Technology and specialised in Fire Safety Engineering at Ghent University. Daan develops fire safety concepts for complex buildings and industrial sites, applying fire safety engineering methods. He also develops system design specifications and system designs for fire detection and alarm systems, sprinkler and watermist systems as well as smoke management systems. One of his challenging projects is the nhow Amsterdam RAI Hotel.



Karim Karzazi is the head of the technical department at AXA XL Risk Consultants. He has been involved in the development of European standards for 20 years and is the convenor of the CEN working group for sprinkler standards. Karim has a degree in mechanical engineering and is a graduate of the National Institute of Fire Safety, INSSI. Before joining AXA he was a loss control manager and sprinkler expert at Allianz. He began his career at CNPP, becoming head of the inspection department and responsible for the French APSAD R1 sprinkler installation rule.



Stewart Kidd is a leading heritage fire safety consultant, and an expert witness for fire safety and security. An author of eight books on fire and security topics, he is a member of the Institution of Fire Engineer's Heritage Special Interest Group and former member of the NFPA Cultural Resources Committee. Stewart is Vice President of the Security Institute and of the Institute of Fire Safety Managers, a former Director of the FPA, former Governor of the Institute of Risk Management and former Secretary General of the British Automatic Fire Sprinkler Association.



Rüdiger Kopp has a degree in Chemical Engineering and Safety Engineering from the University of Dortmund. For more than 20 years he has been involved in the development, testing, approval and marketing of high-pressure water mist systems. He is now Managing Director of FOGTEC Fire Protection in Cologne. Rüdiger is a member of water mist standards committees at NFPA, CEN, DIN, APSAD and FIA/BAFSA, and a founder member of the International Water Mist Association. He has presented many papers and published numerous articles about water mist technology.



Stanislav Kostka is a Senior Research Scientist in the Fire and Explosion Protection Group at FM Global in Norwood, MA. He received his Ph.D. in Mechanical Engineering from the University of Connecticut specializing in combustion and laser diagnostics. He is a member of NFPA, SFPE, the Combustion Institute and OSA. Dr. Kostka has published papers and given presentations on topics ranging from gas turbine combustion, laser diagnostics and fire suppression.



Colonel **Philippe MOINEAU** was Deputy Departmental Director for fire safety and rescue service in Lot-et-Garonne, France, from 2005 to 2019. Since 2016 he has led the Prevention committee of the Fédération Nationale des Sapeurs-Pompiers de France. He has recently been appointed as pilot of "Projet Notre Dame", a four-year project which is looking to improve fire safety in French cultural heritage buildings.



Miriam Munoz is a Functional Safety Engineer at CERN (Geneva) with extensive experience and management skills. Miriam has been working in functional safety over a decade and has participated in and led projects from the design to the commissioning of systems protecting personnel from the risks arising from the accelerators and experiments. Miriam graduated with her master's degree in Electrical Engineer from ICAI University in Madrid.



Tim Nichols is a consultant and expert witness, specialising in active fire protection systems. He is a member of the BSI committees for gas extinguishing and for water mist, and a UK expert to the CEN Task Group on Water Mist Systems. Dr Nichols is a Fellow of the Institution of Fire Engineers and a Chartered Physicist.



Robert Reinermann is CEO of VdS and has held this position for 10 years. VdS is a fully owned subsidiary of the German Insurance Association (GDV) and is one of the leading independent testing and certification institutions in the security and safety market. Dr. Reinermann has a doctorate in Psychology, holds an MBA & Engineering degree (with a focus on management and mechanical engineering) and is a certified systems security professional (CISSP).



Tom Roche is Assistant Vice President, Senior Consultant within the International Codes and Standards Group for FM Global. Prior to this Tom served in engineering roles, travelling extensively to support clients across the world. In the UK Tom is Secretary of the Business Sprinkler Alliance and Active Protection Director for the Fire Sector Federation, supporting the review of regulations that impact fire safety within the built environment. He holds a bachelor's and master's degree in mechanical and electronics engineering from Lancaster University.



Oliver Schröder is deputy head of the fire protection research centre at Minimax Viking Research & Development GmbH in Bad Oldesloe. Oliver started his career as a design and development engineer for the European XFEL tunnel at DESY (German Electron Synchrotron), a research centre of the Helmholtz Association. There he was a member of the specialist group central construction in the mechanics service centre.



Anna Suwalska graduated with the master's degree in Computer Science from Warsaw University of Technology. Shortly after she joined CERN, the European Organization for Nuclear Research in Geneva. As a Software Engineer she participated in and led several software projects in the domain of controls and monitoring for the physics and accelerator sectors. PMP certified since 2015 she is currently leading the SPS Fire Sprinkler Protection System project to renovate the sprinkler system in SPS, Super Proton Synchrotron, the second largest accelerator at CERN.



Jürgen Teschner holds a degree in mechanical engineering. He has worked in fire protection since 1995, when he joined Job in R&D. He is now Chief Marketing and Sales Officer with responsibilities for Marketing, Sales and Application Engineering of Job Thermo Bulbs products worldwide. Jürgen is active in several associations (bvfa, NFSA, AFSA, EFSN), is a Council Member of EFSN and Leader of the Fachgruppe Komponenten of bvfa. He is also a member of various standard development working groups for DIN, CEN, ISO and UL-STP.



Mr **Tong** is the regional manager for Europe and the Middle East for NM FIRE. He has 10 years' experience, specialising in fire-fighting pumps.



Jeanne van Buren is a Senior Consultant at Marsh Risk Consulting, working in the fields of chemical and process engineering, environmental quality management, and risk crisis and disaster management. Her doctoral thesis was on 'Principles and management of information process for integrated management of fire safety at Seveso sites'. Dr van Buren has worked for the University of Delft, the Dutch Seveso authorities, Akzo Nobel and Solvay. She is a HAZMAT officer in the fire brigade.



Ruud van Herpen is Professor of building fire safety at Saxion University, Fellow in Fire Safety Engineering at Eindhoven University and Technical Director of Nieman Consulting Engineers. He has led fire safety design and research projects for Shell Pernis refinery, Schiphol airport, football stadiums, hospitals, museums, entertainment and retail centres. His research has supported the development of Dutch fire safety regulations, Dutch Eurocode application, and fire engineering standards. He is a member of many national and international standards committees.



Mascha van Hofweegen is an expert in the field of corrosion and water treatment at KWA Bedrijfsadviseurs. She was a member of the working group commissioned by the Committee of Experts in Extinguishing Systems which wrote the document 'corrosion in sprinkler installations' and has conducted investigations and given advice on corrosion in sprinkler systems in many applications. Mascha has advised IBM, Ford, FrieslandCampina, Philips, Ducor and Mars. She has also given training courses in water treatment and corrosion at several companies.



Willem van Oppen is senior expert on quality marks and public private cooperation. He studied Law at Leiden University, Safety and Security Management at Utrecht University for Applied Sciences and Public Administration at VU Amsterdam. Since 2004 he has been at the Centre for Crime Prevention and Safety (CCV), an Utrecht based non-profit organisation. Here, he developed a system for management of certification and inspection schemes. He specialises in quality assurance and fire safety, including as programme manager and facilitator.



Sergio Vasquez has a degree as a Technical Architect in 1998 and master's degree in business administration. He began his career as a Project Manager in the construction sector, then spent 12 years in management positions in public administration in Spain. Since 2015 he represents the General Council of Technical Architecture of Spain (CGATE) in the Consortium of European Building Control (CEBC) and the European Council of Construction Economists (CEEC). In 2017 Sergio became Secretary General of EOTA and a member of its Executive Board.



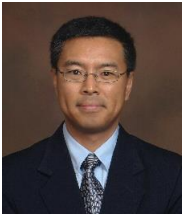
Daniel Wake is Product Manager for Victaulic overseeing business development in Sprinkler, Device and Hydraulic Control Valves for the global fire protection markets. He has nineteen years of experience in the fire protection industry from contractor to manufacturer and achieved Certified Fire Protection Specialist (CFPS) qualification. He is also NFPA 13 SSI Technical committee principal, NFSA Engineering and Standards committee member and technical committee principal representing NFSA for NFPA 120/122.



Guy Watson is Director of Technical Services for Reliable, covering Europe, Middle East and North Africa. He began his over 25 years of experience in the fire protection industry by servicing sprinkler systems for the family company. Before joining Reliable he was a Senior Risk Engineering consultant for global clients, specifying and surveying fire protection systems worldwide for insurers. He is a member of the Institute of Risk Managers and of the Institute of Fire Engineers and an LPC qualified sprinkler system designer.



Jan Witte has a degree in Mechanical engineering. He began his career in 1988 working for Minimax in the R&D department. He is currently Managing Director of Minimax Viking R&D GmbH. Jan is the convenor of CEN TC191 WG 6, which drafts standards for gaseous extinguishing systems and a member of CEN-CENELEC JTC/4, which is responsible for standards for fire and security services. He is also President of Eurofeu and a board member of IFSA.



Yibing Xin is currently the Research Group Manager at FM Global. His Fire and Explosion Protection Group focuses on conducting both critical problem-solving projects and long-term strategic research programs. Dr Xin joined FM Global in 2003 and has developed special interests in new protection systems such as automatic water cannon, oxygen reduction system and SMART sprinkler over the past seventeen years. He is a member of NFPA, SPEF, IAFSS and ASME, and serves in NFPA smoke management technical committee.