Meet the Committee

Pierre Carlotti
Head of the Safety, Structures and Fire Department
Centre Scientifique et Technique du Bâtiment, France

- Engineering Degree Ecole Polytechnique Paris
- Post Graduate Degree Ecole des Ponts et Chaussées Paris
- PhD University of Cambridge
- Former head of the Ventilation and Environment Group at Centre d’Etude des Tunnels (Bron, France)
- Former head of the French Highways Construction Service in Marseille
- Lecturer at Lyon Claude Bernard University for the course “Fluid Mechanics for Tunnel Ventilation”.

Dr Fathi Tarada
Managing Director / Chief Executive
Mosen Ltd / HBI Haerter Ltd

Dr Fathi Tarada is the founder and managing director of Mosen Ltd, and the Chief Executive of HBI Haerter Ltd, a subsidiary of Mosen Ltd. He is a leading expert in fire safety engineering, tunnel ventilation and computational Fluid Dynamics, with design, review and operations experience in buildings and infrastructure worldwide. He is the inventor of the MoJet® tunnel ventilation system, and has submitted a dozen patent applications in the field of mechanical engineering.

Fathi is the Secretary of the World Road Association (PIARC) Technical Committee on Tunnel Operations, and the chairman BHR’s International Symposium on Aerodynamics, Ventilation and Fire in Tunnels.
Geoff Sheard
Vice President – Fan Technology
Fläkt Woods

Geoff Sheard is the Fläkt Woods Group Vice President of Fan Technology, a leading global supplier of energy-efficient solutions operating in both the air climate for buildings and air movement for the infrastructure and industry markets. He is a director of Fläkt Woods Limited, a Visiting Professor at the Aston University Department of Engineering and Applied Science, a Visiting Professor at Sapienza University of Rome Dipartimento di Ingegneria Meccanica e Aerospaziale and a Visiting Fellow at the University of Northampton Business School.

Geoff is also a director of the Air Movement & Control Association (AMCA) and a member of the AMCA Executive Board. He is a member of the International Gas Turbine Institute (IGTI) Board of Directors and leads the IGTI Fans & Blowers initiative. He is also a member of the Institution of Mechanical Engineers (IMechE) Fluid Machinery Group and Chairman of the organising committee for Fan 2012, an international conference on fan noise, technology and numerical methods.

Geoff has doctorate degrees from the University of Oxford in turbomachinery aerodynamics and from the University of Northampton in leadership and team development. He also holds a masters degree in business administration from Cranfield University and a bachelor’s degree in mechanical engineering from Liverpool University.

A chartered engineer, a Liveryman of the Worshipful Company of Engineers, a fellow of the Institution of Mechanical Engineers, a fellow of the Royal Aeronautical Society, a fellow of the American Society of Mechanical Engineers, and a fellow of the Chartered Institute of Building Service Engineers, Geoff has published widely in both technical and management areas. He has published three books, two monographs, over 100 articles, and is a member of the Journal of Management Development editorial advisory board and the Leadership and Organisational Development Journal editorial review board.

Igor Maevski, PhD, PE
Tunnel Ventilation Principal, Fellow
Jacobs Engineering

- NFPA 502 Principal Committee Member, Chairman on Tunnel Egress Subcommittee;
- ASHRAE Vice Chairman of Technical Committee 5.9 Enclosed Vehicular Facilities;
- 27 years of experience in tunnel ventilation and tunnel fire life safety
- Author of the US TRB NCHRP Synthesis Study 415 “Design Fires in Road Tunnels”

Carlo Barbetta
Consultant and Sales Coordinator
Systemair Group

Education with Technical College in Mechanics, Diploma at Politecnico of Milan in Mechanical science.

Started to work in a Fan Manufacturer Company for 35 years following the application in Metro, rail and road tunnels, the latter represent the main application and development especially in the longitudinal ventilation. MD of the Italian branch until 2008 and then join the Systemair Group with the MD position of the Italian subsidiary always involved in the underground business. End the MD position in 2011 and now cooperating with the same Group as a Consultant for the underground business in South Europe.
Ignacio del Rey LLorente
Head of the Tunnels Fire Safety Group

Centro de Modelado en Ingeniería MEcanica (CEMIM)

He is Dr. Engineer by the Technical University of Madrid UPM and electromechanical engineer by the Universidad Pontificia de Comillas.

At present he combines his role as Professor at the Technical School of Industrial Engineer within UPM and head of the group of Tunnels Fire Safety in CEMIM (Centre for numerical modelling in Mechanical Engineering).

He has been involved in road tunnel safety projects for the most emblematic infrastructures along Spain among which it is worthwhile to mention the transnational Somport tunnel (8.6 km) between France and Spain, the Madrid Calle 30 project, the 45 km tunnels network in Madrid, and the Vielha tunnel (5.6 km).

Since 2000 he has been actively working in the activities of different working groups of the PIARC Road Tunnels Operations Committee. At present he is the Chairman of this Committee and in the previous cycle he has been involved in its working group on ventilation as joint-coordinator.

Since 1996 he has also been a member of the Spanish National Road Tunnels Committees (Asociación Técnica de Carreteras).

He continues developing his professional activities as advisor and consultancy in the road tunnels safety field.

Norman Rhodes
Senior Vice President

Parsons Brinckerhoff

BSc. MSc. PhD FiMChE and member of ASME. Former chair of the IMechE Thermofluids Committee, PIARC working group on Fire & Smoke control, FIT thematic network.

- Y-ARD Ltd, involved in all aspect of secondary machinery design in frigates and submarines
- CHAM Ltd, Development and application of the world’s first general purpose CFD code and development of the first 3D smoke movement prediction methods
- Mott MacDonald, Established simulation and modelling group – much tunnel ventilation work, developed the STEPS pedestrian modelling program.
- Hatch Mott MacDonald (USA), Practice Leader – Life Safety & Security - for North America and Canada
- Present role: Parsons Brinckerhoff, Technical Director, Mechanical & Electrical TEC
- I retain a strong interest in modelling and pushing the boundaries of realism in terms of visualization.