

14th Symposium on Lift and Escalator Technologies

20-21 September 2023
Hilton Hotel, Northampton

Day 1

Registration & Coffee

08:30 - 09:10

Welcome and Introduction: David Cooper

09:10

Session 1

ACCESSIBILITY

Chair: David Cooper

09:15-10:15

Principles of Inclusive Design

Rachel Smalley, Keynote speaker

Coffee

10:15 - 10:45

Session 2

PLANNING & DESIGN

Chair: Philip Hofer

10:45-11:00

Tribute to Dr Gina Barney

11:00-11:15

Vertical transportation design deliverance to iconic buildings
Jagadish Kumar

11:15-11:30

Market feedback and additional guidance on ISO 8100-32
Janne Sorsa

11:30-11:45

Design, manufacture, and installation of the Great Glass
Elevator, lift 109 at Battersea Power Station
Kevin Vinson

Conference Photograph for all speakers and delegates

11:45 - 12:30

LUNCH

12:30 - 14:00

Session 3

IoT & TECHNOLOGY

Chair: Adam Scott

14:00-14:15

Condition-based and predictive maintenance strategy for lift installations using big data analytics.

Jimmy K K Chan

14:15-14:30

Smart buildings: IoT-enhanced traffic analysis embedded in lift sensors

Michele Guidotti

14:30-14:45

Technology redefining the future of elevator installation methods for high rise buildings

Philip Hofer

14:45-15:00

Connected lifts. Value for maintenance

Julio Gil

15:00-15:15

The need for standardised metrics and KPI's for AI performance

Rory Smith

Coffee

15:15 - 15:45

Session 4

**TRAFFIC SIMULATION &
DISPATCHING**

Chair: Len Halsey

15:45-16:00

Enhancing the Inter-Linked Monte Carlo simulation method (iL-MCS)
to reflect random passenger inter-arrivals
Lutfi Al-Sharif

1600-16:15

Discussion on express zone and destination control for up peak traffic
Takahiro Ishikawa

16:15-16:30

The global dispatcher
Richard Peters

Closing Day 1

Conference Dinner

19:00

Day 2

Coffee
08:30 - 09:00

Session 5

EVACUATION
Chair: Nick Mellor

09:00-09:15 Study on the concept of using lifts and escalators in evacuation routes using fragility assessment (Damage Analysis and Pedestrian Simulation)
Osamu Furuya

09:15-09:30 Utilization of VoIP in lift emergency communications – a case study
Jason Godwin

09:30-10:15 Evacuation Lift Presentation
Nick Mellor, Eoin O'Loughlin, Matt Ryan

Coffee
10:15 - 10:45

Session 6

PANEL DISCUSSION
USE OF LIFTS FOR ESCAPE OF PEOPLE WITH
SPECIFIC EVACUATION REQUIREMENTS

Chair: Nick Mellor

10:45 - 12:00

Panel: Rachel Smalley, Adam Scott, Matt Ryan, Eoin O'Loughlin

LUNCH
12:00 - 13:30

13:30-13:45 Exploiting the capacity of industrial hydraulic buffers
Stefan Vöth

13:45-14:00 Change of the dynamic elongation in steel wire rope traction systems
over the lifetime, influencing factors and mitigation measures
Michael Eibel & Erich Spirgi

14:00-14:15 Activities and results of the rope vibration working group in the Japan
Society of Mechanical Engineers
Keisuke Minagawa

14:15-14:30 Classification and recognition of roller bearing damage in lift
installations using supervised machine learning and vibration analysis
Mateusz Gizicki

14:30-14:45 Temperature phase plan map and Poincare section for escalators
Ali Albadri

14:45-15:00 On the mechanical interactions in suspension rope - sheave/pulley
systems
Stefan Kaczmarczyk

Closing: Stefan Kaczmarczyk & Richard Peters

End of Proceedings
