



WG 11 – IMMERSED AND FLOATING TUNNELS

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Working Group 11 – Immersed and Submerged Floating Tunnels

Report from meetings:

- 32 attendees from 10 countries across
 - Europe, N. America and Asia
- Both Sunday and Monday meetings
- Work plan developed for coming year
- 9 project and technical reports both on immersed and submerged floating tunnels

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Achievements 2015-2016

- Owner's guide to immersed tunnels:
 - 3rd edition of ITA report no. 7 published
 - 13 new appendices + update of main document.
 - Drafts for 4th and final edition of ITA report no. 7 well progressed.



ITA – AITES 42nd General Assembly San Francisco, April 24 – 27, 2016

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Achievements 2015-2016

- Owner’s guide to immersed tunnels:
 - 27 Annexes now complete

2011	1st Edition	
	Concrete - concrete construction	Published
	Concrete - cracks	Published
	Fire protection	Published
	Tunnel Ventilation	Published
	Segment joints	Published
	Immersion joint	Published
2015	2nd Edition	
	Glossary of terms	Published
	Closure joints	Published
	Steel construction	Published
	Element construction / casting basin	Published
	Soil conditions	Published
	Seismic design	Published
	Compaction Grouting	Published
	Refurbishment	Published
	Tunnel element alignment	Published

2016:

3rd Edition	
Fire protection (update)	Published
Management of immersed tunnel projects	Published
Tunnel element transportation	Published
Tunnel element mounted equipment	Published
Exceptional load cases	Published
Approach Structures	Published
Waterstops	Published
Element construction / Factory method	Published
Water conditions	Published
Waterproofing membranes	Published
Temporary prestressing	Published
Cathodic protection	Published
Dredging	Published
Maintenance and operation	Published

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Achievements 2015-2016

- Environmental paper published



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Plan for 2016-2017:

- SFT Owners Guide
 - First draft will be completed and will undergo review.
- Immersed Tunnel Owners Guide (ITA report no.7):
 - Publication of 4th Edition by WTC2017 with all 45 Annexes complete.

4th Edition
Durability
Design standards
Health & Safety
Immersion joint seals
Leakages
Terminal Joints
Dualling tunnels
Immersion and bouyancy
Foundation/ Settlement
Tunnel backfill
As-built survey
Overall planning & geometry
Structural form
Spatial planning
Post-immersion works
Navigational safety
Contaminated soils
Tolerances

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Plan for 2016-2017:

- Transfer immersed tunnel catalogue to WG20 database.**
- Commence construction risk information paper.**