

Korea



Name: Korean Tunnelling and Underground Space Association

Type of structure: Established in 1992 as a non-profit incorporated association, KTA is the tunnel-oriented national organization to comply with the international aims of ITA. Most of the KTA members are tunnel engineers, but not limited to the civil engineering field and recent expansion into the field of fire, disaster prevention and ventilation within tunnels, among others, are noteworthy.

Number of members: The total number of members as of 2016 is 2,690 with 63 corporate members

2016 – ACTIVITIES

Main activities:

2016 KTA General Assembly & Annual Conference

Seoul, April 19th (180 Domestic participants)



2016 KTA Tunnel Construction Policy Forum

Seoul, November 3rd (120 Domestic participants)



WGs

A total 11 working groups in the KTA:

Standard & specification/tunnelling & support/mechanized tunnelling/urban tunnelling/ventilation & disaster prevention/ tunnel environment/ special underground structures/tunnel maintenance/geotechnical survey & IT/underground convergence development/utility tunnels.



Technical seminar on “current and future of tunnel construction technology, method and equipment” (hosted by KTA WGs) Seoul, September 29th (170 Domestic participants)

KTA-Annual WG Activity Reports: 11 WG activity reports

KTA-Annual WG Technical Report:

[Tunnelling & support]

- “Quality control techniques for lattice girders for tunnel support”
- “Case study on liquid-powder mixed thin polymer liner application”
- “Management standard of tunneling-induced noise and vibration”

Ventilation & disaster prevention

“Guidelines of construction and maintenance of disaster prevention facilities for road tunnels”

“Construction of full-scale fire test site for road tunnels”

Tunnel environment

“Allowable level and compensation limit of proximate blasting to stall”

Underground convergence development

“Geo-City: Future underground city”

Utility tunnels

“Analysis on domestic and foreign TBM advance rate models”

Publications

Domestic technical journal “Tunnelling Technology”

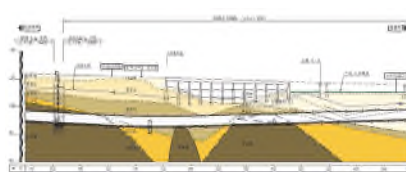
(6 issues in 2016)

Quarterly magazine “Nature, Human Being and Tunnel”

TUNNELS – UNDERGROUND WORKS

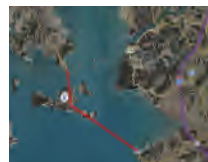
Wonju-Gangneung Railway Tunnel Construction

Dia. 8.1m Slurry Shield TBM Main Infra for 2018 Winter Olympics in PyeongChang



Boryung-Taeon Subsea Road Tunnel Construction

NATM passing through highly fractured faults Undersea route length of 6.92km connecting Route 77



FUTURE ACTIVITIES

ITA endorsed international conference

The 2017 International

Conference on Tunnels & Underground Spaces (ICTUS17)

Aug 28 – Sep 1, 2017 KINTEX/Ilsan (Seoul) Korea

