

Quarterly Journal of Engineering Geology and Hydrogeology

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CONTENTS – Volume 49, Part 4, November 2016

QJEGH 50th Anniversary Review Paper

QJEGH: there and back in 50 volumes

M. G. Winter & E. N. Bromhead

273

Landslide Research in China

Landslide Research in China

Zuyu Chen, Xingmin Meng, Yueping Yin, Tom Dijkstra, Mike Winter & Janusz Wasowski

279

Infiltration in two types of embankments and the effects of rainfall time on the stability of slopes

Guoxiang Tu & Runqiu Huang

286

Performance of the reinforced right abutment slope of Zipingpu Dam during magnitude 8.0 earthquake, Wenchuan, China

Aiwu Ren, Yujie Wang, Zuyu Chen, Yangang Song & Ping Sun

298

Safety monitoring and stability analysis of left bank high slope at Jinping-I hydropower station

Chuangbing Zhou, Qinghui Jiang, Wei Wei, Yifeng Chen & Guan Rong

308

Research article

Effect of electrode configuration on electrokinetic stabilization of soft clays

Taylan Askin & Dilek Turer

322

Syneresis effect on the permeability of chemically grouted sand

Murat Mollamahmutoğlu & Eyubhan Avci

327

Structure transition of lumpy landfills with increasing stress level

X. S. Shi & I. Herle

336

A fuzzy classification routine for fine-grained soils

Derya Toksoz, Isik Yilmaz, Hakan A. Nefeslioglu & Marian Marschalko

344

Geothermal exploration in the Fell Sandstone Formation (Mississippian) beneath the city centre of Newcastle upon Tyne, UK: the Newcastle Science Central Deep Geothermal Borehole

Paul L. Younger, David A. C. Manning, David Millward, Jonathan P. Busby, Charles R. C. Jones & Jonathan G. Gluyas

350

Technical Note

Subglacial water escape structures and shearing; a case study of hidden problems for construction below rockhead in glaciated regions

P. A. Cowsill, M. H. de Freitas & J. J. M. van der Meer

364

Book review

377

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Cover Photograph. The road through the Grotte de Mas d'Azil in France. Limestone karst is best known among engineering geologists for its distinctive range of geohazards, most frequent of which are new sinkholes developed within the soil cover, whereas collapses of rock into underlying caves are less common. Caves can rarely provide a benefit within karst, by providing ready-made tunnels. In the fold-range foothills along the northern side of the Pyrenees, in southern France, the Grotte de Mas d'Azil was cut by the River Arize through a ridge of Cretaceous limestone forming the core of a gentle syncline. The cave is 420 m long and up to 50 m wide, with a stable roof arched up to bedding planes in the strong limestone. Though known and occupied since Palaeolithic times, it now carries Route Nationale 119 along the bank of the underground river and safely above flood level. The Mas d'Azil is one of only a few cave tunnels around the world; these include the road through the Grotta di San Giovanni in Sardinia, Italy, the railway through Natural Tunnel in Virginia, USA, and a handful of roads through large caves in remote parts of China.

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