



C O N T E N T S

09 Feature articles

The New Growth Strategy in the Civil Engineering Technology

- 09 | Overview SAKAGUCHI Takushi
- **10** | Article 1 Interview A Perspective of the Civil Engineering Technology for implementing the New Growth Strategy [interviewee] Dr.YANAGAWA Noriyuki
- 13 | Article 2 The Social Infrastructure Development from the Viewpoint of "the Resilience" NAKATSUKA Takao
- 20 | Column2 Fusion Technology of Mountain Tunneling and Shield Tunneling -SENS- (Casting Support Tunneling System Using TBM) | IURA Tomomi
- 22 | Article 3 The Aging of the Social Infrastructure and the Industrial -academic- government cooperation FURUTA Hitoshi
- 25 | Article4 The Technological evolutions of Civil Engineering Works by Design-Build Contract (Lessons from the Haneda D-Runway Project) MIYATA Masafumi, MIYAMOTO Hisashi
- 33 | Editor's Note SAKAGUCHI Takushi

34 A Special Report on 2011 Great East Japan Earthquake

02 PHOTO REPORTS

- 02 | Construction of Metropolitan Expressway Yokohama Circular Route Northern Section : Challenge to Build Long
 Distance Mega Twin Road Tunnels Underneath a Residential Area by EPB Method KANEKO Masao
- **04 Meet the Expert** Ms. BANDO Mariko
- 06 Admiration of Civil Engineering Heritages by JSCE: Civil Engineering Heritage Sites Selection

No. 94 KASAHARA Tomoko

08 Civil Engineer's Free Time

No.15 The way for the Buddha MORITA Hiroyuki

45 Society Safety Study Team, JSCE

- 45 | Overview ONISHI Hirohumi / Executive Director, JSCE
- 46 | Dr. NAKAMURA Hideo / Former President, JSCE
- **50** | Dr. MORICHI Shigeru / Former President, JSCE

54 Student Report

- **54** | Learn from the go-getter engineer Mr. OHTA Hiroshi, AIZAWA Takatoshi, MIMURO Aoto
- 56 | Invitation to self-analysis Time to worry brings up yourself MIMURO Aoto, AIZAWA Takatoshi, MIZUNO Yuichi
- 61 The Way to Associate Professional Civil Engineer ! No.1 YAMASAKI Yukiyo
- 60 My Bookshelf HAGIWARA Toru

67 Topics Local Rules of Civil Engineering - region's original technical standards

- 67 | Overview YAMAURA Kota
- 68 | Part1 Construction of Quasi-2 lane road [interviewee] YAMAJI Yuki, [interviewer] YAMAURA Kota
- 70 | Part2 Design for Flood Disaster-Reduction System Based on Risk Distribution in Flood Plain: SHIGA Experience [interviewee] TAKI Kentaro, [interviewer] YAMAURA Kota
- **72** | Part3 Support business to formulate independent evacuation rules by residents for sediment disasters. [interviewee] KONDO Yoshikazu, [interviewer] YAMAURA Kota
- 74 | Part4 Localization of Technology: How Users, Local Culture and Environments Matter OKUMA Takashi

77 CE Reports

77 | Large scale maintenance,reinforcement for steel langer bridge in service MURATA TOSHIKATSU. ARIMURA HIDEKI

83 | JSCE Updates 98 | CE Careers 102 | JSCE Calendar 108 | This Issue's Contributors