



C O N T E N T S

15 Feature articles

Taking lessons from the past civil engineers for future infrastructure

- 15 | OVERVIEW CHIBANA Takeyoshi
- 16 | Article1 Future of Civil Engineering NISUGI Iwao, TAMBO Norihito
- 22 | Article2 Infrastructural development should not disregard landforms SUZUKI Takasuke
- 27 | Article3 Technological Strategy and Design Concept of Past River Engineers & Local Residents

 MIYAMURA Tadashi
- 30 | Column1 Technology and engineering philosophy about Japanese castle masonry wall KASA Hiroyoshi
- 31 | Column2 Technology and engineering philosophy about brick masonry structures NISHIOKA Satoshi
- 32 | Article4 Civil Engineers and New Epochs in Modern Civilizations KITAGAWA Daiiiro
- **37** | Article5 Past experience and future direction of the national infrastructure development plan NAKAMURA Hideo
- 41 | Editor's Note CHIBANA Takeyoshi

42 A Special Report on 2011 Great East Japan Earthquake

02 New Year's Message from the President

YAMAMOTO Takuro

04 PHOTO REPORTS

- $\textbf{04} \hspace{0.1cm} | \hspace{0.1cm} \textbf{Reconstruction Project in Response to Typhoon Morakot Disaster} \hspace{0.1cm} \textbf{KO Wute}$
- 06 | Doto Expressway: Opening to traffic between Yuubari Shimukappu MOTOMIYA Tsuyoshi

08 Meet the Expert

Mr. CHERN Jenn-Chuan

10 Admiration of Civil Engineering Heritages by JSCE: Civil Engineering Heritage Sites Selection

No.91 Tainan Water Treatment Plant YOKOMATSU Muneharu, Cheng Che CHEN

12 Student Report We did as they did in those days!

No.11 Circulating society with night-soil SAWAMURA Yasuo, YAMASAKI Yukiyo

14 Civil Engineer's Free Time

No.10 Violin INOUE Masumi

100 Student Report Learn from the go-getter engineer

No.4 Mr. OSANAI Masahiro AlZAWA Takatoshi, TSUJIMOTO Tsuyoshi

102 Do You Know About Shinkansen?

No.10 The development scheme of New Shinkansen Lines SASHIDA Tohru

107 Topics

Safety, Effectiveness and Rapidity — Response to Typhoon Morakot Post-Disaster Reconstruction

118 My Bookshelf

No.61 TEBAKARI Taichi

119 | JSCE Updates 129 | New Papers on J-STAGE 134 | Opinions 140 | Next Issue

126 | CE Careers 131 | JSCE Calendar 138 | This Issue's Contributors