Civil and Environmental Engineering Reports

Prace z Inżynierii Lądowej i Środowiska



University of Zielona Góra Press, Poland

CIVIL AND ENVIRONMENTAL ENGINEERING REPORTS

Civil and Environmental Engineering Reports is a scientific journal published by the University of Zielona Góra.

Kindly welcome are papers within the following research domains: structural engineering, organization and management in civil engineering, geotechnical engineering and environmental engineering. The papers are printed in English.

The CEER journal is published annually.

The details concerning preparation of manuscripts are available at the URL address: www.ib.uz.zgora.pl in the section CEER.

SCIENTIFIC COMMITTEE:

Civil Engineering:

Tadeusz Biliński

Józef Gil

Mieczysław Kuczma – Scientific Secretary Romuald Świtka – Editor-in-Chief

Krzysztof Wilmański Czesław Woźniak

Environmental Engineering:

Andrzej Greinert Henryk Greinert

Andrzej Jędrczak – Scientific Secretary

Zygmunt Lipnicki Marlena Piontek Maria Świderska-Bróż

ADDRESS OF THE EDITORIAL OFFICE:

CEER

Institute of Building Engineering
University of Zielona Góra
ul. Z. Szafrana 1, 65-516 Zielona Góra, Poland
e-mail: CEER.redakcja@ib.uz.zgora.pl

ISBN 978-83-7481-291-7

© Copyright by University of Zielona Góra Zielona Góra, Poland, 2009 Binding and duplication: University of Zielona Góra Press ul. Licealna 9, 65-417 Zielona Góra, Poland

2 0 0 9 Number

Civil and Environmental Engineering Reports



CONTENTS

| 1. | Anna Asani |
|-----|---|
| | METHODS OF GENERAL STABILITY CALCULATION FOR FLOOD EMBANKMENT BODY AND FOUNDATION |
| 2. | Zbigniew Cywiński |
| | ASCE HONOR FOR THE TCZEW BRIDGE IN POLAND |
| 3. | Jerzy Gołaś THE INFLUENCE OF TRANSVERSE SHEARING AND ROTATORY INERTIA ON THE VIBRATIONS OF FIBROUS COMPOSITE BEAM |
| 4. | Magda Hudak |
| | THE PHENOMENON OF SOIL SUFFUSIONABILITY IN THE AREA |
| | OF THE CENTRAL WATER INTAKE IN ZAWADA NEAR ZIELONA GÓRA |
| 5. | Jachimko Barbara |
| | SOME ASPECTS OF CHEMICAL COMPOSITION OF GEOLOGICAL |
| | STRUCTURE OF "ANTROPOGENIC LAKE DISTRICT" |
| 6. | Urszula Kołodziejczyk |
| | RATIONAL MANAGEMENT OF WATER RESOURCES IN THE BASIN |
| _ | OF A BIG RIVER IS NOT EASY |
| 7. | Urszula Kołodziejczyk, Michał Ćwiąkała |
| | EVALUATION OF THE EFFICIENCY OF USE OF AGGREGATES AND |
| _ | CHEMICAL COMPOUNDS FOR WINTER ROAD MAINTENANCE |
| 8. | Tomasz Kozłowski |
| | EQUILIBRIUM AND NON-EQUILIBRIUM FREEZING OF WATER IN CLAY-WATER SYSTEMS |
| 0 | |
| 9. | Krzysztof Labus GEOTECHNICAL ISSUES OF SHALLOW MINING WITHIN THE UPPER |
| | SILESIAN INDUSTRIAL REGION |
| 10 | Małgorzata Labus |
| 10. | ROCK POROSITY DETERMINATION IN THE HISTORICAL MONUMENTS |
| | PRESERVATION |