

Serie nouă a revistei **CONSTRUCȚII**

Nr. 1-2 / 2016-2017

ISSN 1221-2709

e-ISSN 2247-0328

CONSTRUCTII

Journal of the

**National Research and Development
Institute in Construction, Urban
Planning and Sustainable Spatial
Development, URBAN-INCERC,
INCERC Bucharest Branch, Romania**

COLEGIU DE REDACTIE / EDITORIAL STAFF

Editor șef / Editor in Chief:

Dr. ing. / Dr. Emil-Sever GEORGESCU

Redactor șef / Associate Editor:

**Conf. univ. dr. ing. / Assoc. Prof. Dr.
Iolanda-Gabriela CRAIFALEANU**

Tehnoredactare computerizata / Desktop
publishing:

Tehn. / Techn. Marilena VASILE

Adresa redacției / Editorial office

INCD URBAN-INCERC, Sucursala/ Branch
INCERC Bucuresti, Sos. Pantelimon, nr. 266,
sector 2, Bucuresti, Cod postal 021652,
Tel: +4021-255.78.66, Fax: +4021-255.00.62,
E-mail: constructii.journal@gmail.com

Website: <http://constructii.incd.ro/>

Indexed in international databases and

catalogues: Academic Journals Database •

Academic Keys • arthistoricum.net • Bern

Dibner Library of Science and Technology •

DOAJ • EBSCO • EconPapers • Electronic

Journals Library • Genamics JournalSeek •

getCITED • Google Scholar • Ideas-RePEc •

IndexCopernicus™ • Intute • Israel Institute of

Technology –Technion • Lupton Library •

Munich Personal RePEcArchive • National

Library of Australia • OPACPlus • Open J-

Gate • ProQuest/Illustrata • ResearchGATE •

Structurae • TIB/UB Hannover • Ulrichsweb™

• Universia • VUBIS • WorldCat® •

WorldWideScience.org

COLEGIUL ȘTIINȚIFIC EDITORIAL / EDITORIAL SCIENTIFIC BOARD

Editor șef / Editor in Chief:

Dr. Emil-Sever GEORGESCU,

URBAN-INCERC, INCERC Bucharest Branch, Romania

Membri / Members:

Prof. Dr. Florea CHIRIAC

Member of the Academy of Technical Sciences of Romania,
ASTR

Technical University of Civil Engineering Bucharest, Romania

Dr. Dan CONSTANTINESCU

Corresponding Member of the Academy of Technical Sciences
of Romania, ASTR

Assoc. Prof. Dr. Iolanda-Gabriela CRAIFALEANU

Technical University of Civil Engineering Bucharest, Romania

URBAN-INCERC, INCERC Bucharest Branch, Romania

Prof. Dr. Ioan DUMITRACHE

University "Politehnica" of Bucharest, Romania

Corresponding Member of the Romanian Academy

Member of the Academy of Technical Sciences of Romania,
ASTR

Prof. Dr. Liviu DUMITRESCU

Association of Building Services Engineers in Romania

Prof. Dr. Cristian GHIAUS

Institut National des Sciences Appliquées, INSA, Lyon, France

Prof. Dr. Dan LUNGU

Technical University of Civil Engineering Bucharest, Romania

Prof. Dr. Sanda MANEA

Technical University of Civil Engineering Bucharest, Romania

Prof. Dr. Theodor MATEESCU

Technical University "Gheorghe Asachi", Iasi, Romania

Prof. Dr. Cornel MIHAILA

Technical University of Civil Engineering Bucharest, Romania

Prof. Dr. Cristina OCHINCIUC

University of Architecture and Urbanism "Ion Mincu", Bucharest,
Romania

Prof. Dr. Radu PASCU

Technical University of Civil Engineering Bucharest, Romania

Prof. Dr. Petre PATRUT

Member of the Academy of Technical Sciences of Romania,
ASTR

Technical University of Civil Engineering Bucharest, Romania

Antonios POMONIS, MSc, CEng

Risk Management Solutions, Athens, Greece

Prof. Dr. Adrian RADU

Academy of Technical Sciences of Romania, ASTR

Technical University "Gheorghe Asachi", Iasi, Romania

Prof. Dr. Victor RADU

The Bucharest University of Economic Studies, Bucharest,
Romania

Dr. Horea SANDI

Member of the Academy of Technical Sciences of Romania,
ASTR

Dr. Zeev SAVION

Zeev Savion Ltd., Tel Aviv, Israel

Dr. Henriette SZILAGYI

URBAN-INCERC, Cluj-Napoca Branch, Romania

Anton ZAICENCO, PhD, PEng

Weir-Jones Group of Companies, Vancouver B.C., Canada

Dr. Johann ZIRNGIBL

Centre Scientifique et Technique du Bâtiment - CSTB, France

CUPRINS

Vasile MEIȚĂ, Emil-Sever GEORGESCU, Claudiu-Sorin DRAGOMIR, Daniela DOBRE: *Rolul simulatorilor seismici în ingineria seismică și percepția publică a siguranței structurale*..... 3

Vasilica VASILE, Alina DIMA, Mihaela ION: *Calitatea aerului interior într-un laborator de chimie* 11

Emil Sever GEORGESCU, Cristina Olga GOCIMAN, Iolanda-Gabriela CRAIFALEANU, Mihaela Stela GEORGESCU, Cristian Iosif MOSCU, Claudiu Sorin DRAGOMIR: *Evaluarea riscurilor și vulnerabilităților la amenințări multi-hazard într-o zonă protejată din București*..... 17

Irina POPA, Alexandrina Maria MUREȘANU: *Caracterul anticoroziv al sistemelor multistrat din produși acrilici cu microsferă ceramice și adaos de caolin. Partea I* 25

Emil-Sever GEORGESCU, Vasile MEIȚĂ: *Proiectul „RISKSOLVE – Evaluarea și investigarea soluțiilor de reducere a riscului seismic al clădirilor, înainte și după cutremure” – un punct de pornire în cooperarea științifică a INCĐ URBAN-INCERC, România, cu IEM Harbin, R. P. Chineză*..... 31

Florin - Radu HARIGA, Andrei DUȚĂ, Aurelia BRADU: *Cercetare experimentală și teste de laborator pentru calificarea seismică a unei cutii de joncțiune "Automatica - PL2023"*..... 39

CONTENTS

Vasile MEIȚĂ, Emil-Sever GEORGESCU, Claudiu-Sorin DRAGOMIR, Daniela DOBRE: *The role of seismic simulators in earthquake engineering and public perception of structural safety* 3

Vasilica VASILE, Alina DIMA, Mihaela ION: *Indoor air quality in a chemistry laboratory environment*..... 11

Emil Sever GEORGESCU, Cristina Olga GOCIMAN, Iolanda-Gabriela CRAIFALEANU, Mihaela Stela GEORGESCU, Cristian Iosif MOSCU, Claudiu Sorin DRAGOMIR: *Evaluation of risks and vulnerabilities under multi-hazard threats in a protected area of Bucharest, Romania* 17

Irina POPA, Alexandrina Maria MUREȘANU: *Anticorrosive character of the multi-layered systems of acrylic products with ceramic microspheres and kaolin addition. Part 1*..... 25

Emil-Sever GEORGESCU, Vasile MEIȚĂ: *The project “RISKSOLVE – Evaluation and investigation of seismic risk reduction solutions for buildings, before and after earthquakes” – a starting point in the scientific cooperation of INCĐ URBAN-INCERC, Romania, with IEM Harbin, P.R. of China*..... 31

Florin - Radu HARIGA, Andrei DUȚĂ, Aurelia BRADU: *Experimental research and laboratory tests for seismic qualification of an “Automatica - PL2023” junction box*..... 39

Toate drepturile asupra materialelor publicate în revistă sunt rezervate
Sucursalei INCERC – București.
All rights on materials published in the journal are reserved to INCERC
Bucharest Branch

Punctele de vedere exprimate în articole aparțin autorilor, redacția
rezervându-și dreptul de a prezenta și alte opinii.
The points of view expressed in the papers belong to the authors; the
editors reserve the right to also present other opinions.

Cererile pentru procurarea de reviste și abonamente vor fi adresate
către:
Subscription and purchasing requirements should be addressed to:

INCĐ URBAN-INCERC,
Sucursala INCERC București,
Sos. Pantelimon, nr. 266, sector 2, București,
Cod postal 021652,
Tel: +4021-255.78.66, Fax: +4021-255.00.62,
e-mail: constructii.journal@gmail.com