

BIONATURE 2015

The Sixth International Conference on Bioenvironment, Biodiversity and Renewable Energies

May 24 - 29, 2015

Rome, Italy

BIONATURE 2015 Editors

Vladimir Strezov, Macquarie University - Sydney Australia
Victor Zaichenko, Biocenter, Russia

Printed from e-media with permission by:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2015) by International Academy, Research, and Industry Association (IARIA) Please refer to the Copyright Information page.

Printed by Curran Associates, Inc. (2015)

International Academy, Research, and Industry Association (IARIA) 412 Derby Way Wilmington, DE 19810

Phone: (408) 893-6407 Fax: (408) 527-6351

petre@iaria.org

Additional copies of this publication are available from:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571 USA

Phone: 845-758-0400 Fax: 845-758-2634

Email: curran@proceedings.com Web: www.proceedings.com

TABLE OF CONTENTS

BIONATURE 1: GREEN ENERGY, PLANT DIVERSITY, ENVIRONMENTAL RESPONSIBILITY

The Potential for Energy Diversification to Optimise Buildings' Energy Performance Beyond Green Ratings	1
X. Li, V. Strezov	
Comparative Studies of the Combustion of Raw and Heat-treated Straw and Combined Coal and Straw Pellets	7
R. Isemin, A. Mikhalev, V. Konyakhin, S. Kuzmin, O. Milovanov, D. Klimov	
Plant Diversity in the Area of Water Bodies near Kraków: Focus on Invasive Plants	13
Developing Environmental Responsibility Through Place-based Education	20
BIONATURE 2: FOREST LANDSCAPE	
A Naturalistic Indicator of the Forest Quality and its Relationship with the Land Use Anthropentropy	
Factor: Theory, Tools, and Results for an Italian Case Study	
Assessment of Human Pressure on Forest Ecosystems in the Czech Republic H. Kankova	34
Use of Proba-V Images in Southern Africa for Dynamic of Desertification Indicators	36
Author Index	