

TABLE OF CONTENTS

KEYNOTE	8
Programming Models For High Performance Computing <i>Barbara Chapman</i>	9
CHEMISTRY	17
Generation and screening of ditopic dynamic combinatorial libraries <i>Taridaporn Bunyapaiboonsri, Jean-Marie Lehn, Sophie Lohmann, Olof Ramström</i>	18
Mechanism and applications of the remote C-H activation of phenyl substituted alkenes by $\text{BH}_3 \cdot \text{THF}$ <i>Paul Knochel and Jesús A. Varela</i>	24
Preparation Of Platinum Catalysts Based On Pillared Clays <i>Jean-François Lambert and Miguel Angel Vicente</i>	27
EARTH SCIENCES	34
On The Surface Processes Of Crystal Growth At Low Temperatures <i>Carlos M. Pina</i>	35
The Effects Of Global Oceanographic Changes On Early Dinoflagellate Evolution <i>Raffaella Bucefalo Palliani and James B. Riding</i>	39

ECONOMICS	45
Paradox Of Redistribution In Polish Politics	46
<i>Agnieszka Rusinowska</i>	
ENGINEERING	55
Modelling the swash zone flows	56
<i>Maurizio Brocchini</i>	
Heuristics for improved efficiency in the use of the global navigation satellite systems for establishing positioning networks	62
<i>Hussain Aziz Saleh and Peter Dare</i>	
INFORMATION SCIENCES	75
Making Java Hard Real-Time	76
<i>Peter Puschner, Guillem Bernat, and Andy Wellings</i>	
Neural Networks Revisited: A Statistical View On Optimisation And Generalisation	82
<i>Andreas Wendemuth</i>	
LIFE SCIENCES	91
Molecular analysis of the interaction between potato virus x and the resistance gene <i>nb</i> in <i>solanum tuberosum</i>	92
<i>María Rosa Marano, Isabelle Malcuit and David C. Baulcombe</i>	
How food consumption and diet quality can influence the growth of tropical shrimps and lobsters	98
<i>Eleni Mente and Dominic F. Houlihan</i>	

Aquatic Mating Strategies Of Male Bearded Seals	103
<i>Sofie M. Van Parijs</i>	
An Antigen-Driven B-Cell Response Within The Salivary Glands Of Patients With Sjögren's Syndrome	108
<i>David I. Stott and Claudia Berek</i>	
MATHEMATICS	117
On The Kauffman Bracket Of Pretzel Links	118
<i>Pedro María González Manchón</i>	
PHYSICS	123
Beta-decay studies using total absorption techniques	124
<i>A. Algora, B. Rubio, D. Cano-Ott, J.L. Tain, A. Gadea, E. Nácher</i>	
The Rotational-Vibrational Model Of Trinuclear Molecules	130
<i>Serban Mişicu</i>	
SOCIAL SCIENCES	134
Interest Mobilisation In The European Union	135
<i>Richard Balme, Didier Chabanet</i>	
How do individuals mobilise support in emergencies?	142
<i>Andreas Hoff</i>	
The Study Of Collective Action Among Older People: A Social Psychological Perspective	148
<i>Judit Pont-Boix, Evanthia Lyons, Glynis M. Breakwell</i>	

MULTI-DISCIPLINARY PAPER

158

Detection Of Genetically Modified Maize By Pcr And Capillary Gel Electrophoresis (Cge)
Using Uncoated Columns

159

Virginia García-Cañas, Ramón González, Alejandro Cifuentes