

**CONTENTS****Editorial****SCIENTIFIC EPONYM IN EDUCATIONAL UNIVERSE**

Uladzimir Slabin . . . . . 144

**Articles****EFFECT OF 5E TEACHING MODEL ON PRIMARY SCHOOL PRE-SERVICE TEACHERS' LEARNING ON SOME ASTRONOMY CONCEPTS**

Çiğdem Şahin, Ümmü Gülsüm Durukan, Elif Arıkurt . . . . . 148

**PRE-SERVICE SCIENCE TEACHERS' CONCEPTIONS OF THE "CONDUCTION OF HEAT IN SOLIDS"**

Tülay Şenel Çoruhlu . . . . . 163

**SCIENTIFIC COMPETENCIES: A MECHANISM TO FAVOUR THE INCLUSION OF WORKING MARKET PROFESSIONALS**

Alba Guzmán, Diana Oliveros, Mauricio Mendoza . . . . . 175

**A STUDY OF VOLUNTEERS' SCIENCE SERVICE SATISFACTION IN RELATION TO THEIR SELF-DIRECTED LEARNING AND MOTIVATION**

Hui-Min Chien . . . . . 188

**A STUDY OF THE CORRELATION BETWEEN TEACHERS' TEACHING STYLES AND STUDENTS' PARTICIPATION MOTIVATION IN THE PHYSICAL EDUCATION**

Cheng-Bo Yang, Min-Kai Dong . . . . . 199

**SCAFFOLDING MIDDLE SCHOOL AND HIGH SCHOOL STUDENTS' MODELING PROCESSES**

Meng-Fei Cheng, Jang-Long Lin, Shih-Yin Lin, Chi-Ho Cheng . . . . . 207

**THE EFFECTS OF COMBINING INQUIRY-BASED TEACHING WITH SCIENCE MAGIC ON THE LEARNING OUTCOMES OF A FRICTION UNIT**

Jang-Long Lin, Meng-Fei Cheng, Shih-Yin Lin, Jih-Yuan Chang, Ying-Chi Chang, Hsiao-Wen Li, Deng-Min Lin . . . . . 218

**A LEARNING PROCESS BASED ON CONCEPTUAL CHANGE APPROACH TO FOSTER CONCEPTUAL CHANGE IN NEWTONIAN MECHANICS**

Syuhendri Syuhendri . . . . . 228

**THE EFFECT OF MOVEMENT EDUCATION BASED ON COOPERATIVE LEARNING METHOD ON THE DEVELOPMENT OF BASIC MOTOR SKILLS OF PRIMARY SCHOOL 1ST GRADE LEARNERS**

Mustafa Altinkök . . . . . 241

**FOR HUMANIZATION AND HISTORICISM: HOW WELL UNIVERSITY STUDENTS KNOW AND WHAT THEY THINK ABOUT CHEMICAL EPONYMS**

Uladzimir Slabin, Vasili Krasitski . . . . . 250

**CLOSING THE SCIENCE PROCESS SKILLS GAP BETWEEN STUDENTS WITH HIGH AND LOW LEVEL ACADEMIC ACHIEVEMENT**

Baskoro Adi Prayitno, Duran Corebima, Herawati Susilo, Siti Zubaidah, Murni Ramli . . . . . 266

**Information****INFORMATION FOR CONTRIBUTORS** . . . . . 278**PROBLEMS OF PSYCHOLOGY IN THE 21ST CENTURY** . . . . . 279