

**Issues on Education and
Research: Volume 3**

**Edited by
Gregory T. Papanikos**

Athens Institute for Education and Research

2013

**Issues on Education and
Research: Volume 3**

**Edited by
Gregory T. Papanikos**

ATINER 2013

**Issues on Education and
Research: Volume 3**

First Published in Athens, Greece by the
Athens Institute for Education and Research.
ISBN: 978-960-9549-33-2

All rights reserved. No part of this publication may be reproduced,
stored, retrieved system, or transmitted, in any form or by any means,
without the written permission of the publisher, nor we otherwise
circulated in any form of binding or cover.

Printed and bound in Athens, Greece by ATINER
8 Valaoritou Street, Kolonaki
10671 Athens, Greece
www.atiner.gr

©Copyright 2013 by the Athens Institute for Education and Research.
The individual essays remain the intellectual properties of the
contributors.

Table of Contents

Introduction	i
<i>Gregory T. Papanikos</i>	
Part I: Technology and Information	
1. Achieving Interdisciplinary Learning in Doctoral Study in Nanomedicine	3
<i>Mary H. Shann</i>	
2. Academic Librarianship Issues in Developed and Underdeveloped Countries	17
<i>Carlos Gabriel Wong-Martínez</i>	
3. The Effects of e-learning in teaching a Course Unit	31
<i>Maria de Fátima Goulão</i>	
4. Innovation in E-Reader: Sharing Note-taking on Social Networking Service	43
<i>Yun-Ting Su and Shelley Shwu-Ching Young</i>	
5. Integrating the Four-Frame Webcomics with Hyperlinks and Social Networking Site as Motivations of Learning about Chinese Lunar Festivals	51
<i>Wei-Chen Hong and Shelley Shwu-Ching Young</i>	
6. How ICTs are changing the way we live	61
<i>Maria de Fátima Goulão</i>	
7. Muta – Morphosis	73
<i>Murat Germen</i>	
8. The Most Effective Means of Reaching Students who Require Help	87
<i>Nicole Racette, Louise Sauvé, David Moisan and Normand Bourgault</i>	
9. Health Education as a Leading Factor in Adult Health Competence Building	101
<i>Inara Upmale</i>	
10. Readily Available Technology Integration in an Early Childhood Education Preservice Curriculum: Issues and Strategie	111
<i>Howard P. Parette, Jr.</i>	
11. The Effectiveness of the Computer-Assisted Teaching Method on Students' Achievement in Science Education	129
<i>Ezgi Güven, Elvan İnce Aka, Pınar Fettahlioğlu, Ayşe Sert Çibik, Alev Doğan and Mustafa Aydoğdu</i>	

Part II: Education and the Market Place

- 12. Correlation between Company Feedback and Self-Reflections on Professional Competences for Science and Engineering Interns** 139
Esther Vinken and Jetse C. Reijenga
- 13. Pre Business 101 “Professors, L’oréal and Students Unite Through the Kallystee Game*”** 149
Daniel Tixier
- 14. The Business Case for Corporate Social Responsibility in Education** 163
Elena Bundaleska and Makedonka Dimitrova

Part III: Teaching and Teachers: Early, Primary and Secondary

- 15. Sexuality Education in the University Setting: Necessity or Luxury?** 177
Sara B. Oswald and Tammy J. Wyatt
- 16. The Challenge of Motivating Engineering Students** 191
Daniela M. Campos and Ana C. Queiroz
- 17. The Confrontation of Experienced Teachers' with some Challenges of M.Ed. Studies in Environmental Education** 199
Yehudith Weinberger and Amos Dreyfus
- 18. Scaffolding the Continuing Professional Development of Science Teachers’ Classroom Practice** 215
Emmanuel Mushayikwa
- 19. Solving Problems on a Blackboard as a Traditional Social Norm in Slovenian Mathematics Classrooms** 231
Alenka Lipovec and Darja Antolin
- 20. Group Assessment; A Study on the Impact of Students’ within Group Attitudes** 245
Mona Shekarriz and Alireza Mousavi
- 21. Assessing reading in a Period of Change: Early Years Teachers’ Views** 259
Angeliki Kostopoulou and David Wray
- 22. Differentiating Instruction Based on Individual Differences in Primary School Science Classrooms** 277
Pinar Özdemir

23.	The Effects of Poster Applications in Science Education in the Unit “The Solar System and Beyond: The Puzzle of the Space” on Students’ Academic Achievement	289
	<i>Esra Benli and Alev Dogan</i>	
24.	6 Year Old Pre-School Children’s Perception of “Past”	299
	<i>Rengin Zembat, Burcu Özdemir Beceren, Tuba Şengül and F. Özge Ünsal</i>	
25.	Examining Elementary Second Grade Students’ Level of Knowledge about Air Pollution	311
	<i>Ayşe Sert Çibik, Elvan İnce Aka, Pınar Fettahlioğlu, Ezgi Güven, Alev Doğan, Erdinç Öcal</i>	
26.	Assessment of Breakfast Habits of Elementary School Students and their Participation Levels in Classroom	323
	<i>Leyla Özgen and Yücel Gelişli</i>	
27.	The Effects on Teacher Candidate's Point of Views Related to Teaching Profession after Practice of School Experience Course-I	339
	<i>Yücel Gelişli</i>	
28.	Actively Engaging ALL Students in Learning	359
	<i>Christine Bond</i>	
29.	Examining Teachers’ Beliefs and Implementation of Comprehension Strategies in a Balanced Literacy Framework	365
	<i>Gary E. Bingham and John E. Kesner</i>	
	Part IV: Teaching and Teachers: Higher Education	
30.	Criticisms of Higher Education during the Cromwellian Period in Britain	389
	<i>Marek Smoluk</i>	
31.	Assessing Preschool Children’s Attitudes towards Animals	401
	<i>Ilkay Ulutas and Serap Demiriz</i>	
32.	An Analysis of the Effects of Pre-School Educational Settings on Six-Year-Old Children’s Social Adaptations	409
	<i>Filiz Erbay, Gözde İnal and Esra Ömeroğlu</i>	
33.	The Effects of Active Methodologies on the High Schools Student's Pro-Social Behaviour: Teachers' Views	421
	<i>Alessia Carta and Carla Podda</i>	

34. Preschool Teachers about Introducing Special Educational Principles of Reggio Emilia Concept in Slovene Curriculum for Preschool Education	437
<i>Tatjana Devjak, Sanja Berčnik and Srečko Devjak</i>	
35. The Study of Pre-School Teachers' Practices for Preparation for Literacy	451
<i>Adalet Kandir, Özgün Uyanik, Münevver Can-Yaşar and Gözde Inal</i>	
36. Young People and Risk: Perceptions and Possibilities	463
<i>Steve Dixon, Madeline Martyn, Dave Trotman and Stan Tucker</i>	
37. Evaluating of Information Literacy Skills of Prospective Primary Teachers with Respect to some Variables	479
<i>Mustafa Kahyaoglu, M. İkbal Yetişir and Firat G. Birel</i>	
38. Training Motivation in Academia: Antecedents of Participating Voluntarily in Professional Development	495
<i>Alexandra Nikitopoulos and Silke Weisweiler</i>	
Part V: Special Essays	
39. An International Exploration: The Influence of National Culture on the Identity of Catholic School Leaders and Their Creation of a Catholic School Community Culture	515
<i>Merylann J. Schuttloffel</i>	
40. Capacity Building for School Improvement: Knowledge Production and Utilization	529
<i>Patricia Stringer</i>	
41. What does Chemistry have to do with Art?	549
<i>Monika Kuchnowski</i>	
42. Curricular Commonalities in Conflicted Countries: U.S., Rwanda, and Cyprus	561
<i>Nancy Strow Sheley</i>	
43. Academic Writing and Learning in an Era of Singularity	571
<i>Yitzhak Ezuz</i>	
44. Is Euclidean Geometry Still Relevant? The Case of a Quaternionic Algorithm	585
<i>Michael Aristidou</i>	
45. Effect of Repeated Reading Technique on Reading Comprehension Skills	597
<i>Emine Seda Gün</i>	

- 46. The Relationship between Dietary Iron Consumption and School Achievement** **613**
Saima Küçükkömürler, Suzan Şeren Karakuş and Orhan Yavuz
- 47. Identifying the Qualities of the Administrations Giving Service on Catering and Banquet, the Educational Background of the Staff and the Necessities of Vocational Education in the Sector** **621**
Saima Küçükkömürler, Mehmet Güllü and Bülent Topal
- 48. Lexical Semantics and Deverbal Nominalizations in Sesotho** **631**
Pule Alexis Phindane

List of Contributors

Elvan İnce Aka, *Research Assistant, Gazi University, Gazi Education Faculty Department of Science Education, Turkey*

Darja Antolin, *Assistant, University of Maribor, Faculty of Education, Slovenia*

Michael Aristidou, *Adjunct Professor, Northwestern State University, USA*

Mustafa Aydoğdu, *Professor Doctor, Gazi University, Gazi Education Faculty Department of Science Education, Turkey*

Esra Benli, *Master Student, Gazi University, Turkey*

Burcu Özdemir Beceren, *MA, Marmara University, İstanbul, Turkey*

Sanja Berčnik, *Assistant (to professor), Faculty of Education, University of Ljubljana, Slovenia*

Gary E. Bingham, *Assistant Professor, Georgia State University, USA*

Firat G. Birel, *Faculty of Education, Siirt University, Turkey*

Christine Bond, *Assistant Professor, Salve Regina University, USA*

Normand Bourgault, *Professor, Université du Québec en Outaouais, Ottawa, Canada*

Elena Bundaleska, *Assistant Professor, University American College Skopje, Fyrom*

Daniela M. Campos, *Assistant Professor, ESEIG-IPP, Portugal*

Münevver Can-Yaşar, *PhD, Afyon Kocatepe University, Education Faculty, Department of Early Childhood Education, Turkey*

Alessia Carta, *Researcher, University of Cagliari, Italy*

Ayşe Sert Çıbık, *Research Assistant, Gazi University, Gazi Education Faculty Department of Science Education, Turkey*

Serap Demiriz, *Assistant Professor, Department of Early childhood Development and Education, Gazi University, Turkey*

Jean-François Desbiens, *Full Professor, Vice-dean of Teaching and Learning and International Affairs, Université de Sherbrooke, Canada*

Srečko Devjak, *Full Professor, Faculty of Administration, University of Ljubljana, Slovenia*

Tatjana Devjak, PhD, *Associate Professor, Faculty of Education, University of Ljubljana, Slovenia*

Makedonka Dimitrova, *Assistant Professor, University American College Skopje, Fyrom*

Steve Dixon, *Senior Lecturer in Education, Newman University College, UK*

Alev Dogan, *Associate Professor, Gazi University, Turkey*

Amos Dreyfus, Professor, The Hebrew University in Jerusalem, Israel

Filiz Erbay, Research Assistant, Selçuk University, Faculty of Vocational Education, Department of Child Development and Education, Turkey

Yitzhak Ezuz, Department for Training Principals in Beit Berl College, Israel

Pınar Fettahlıoğlu, Research Assistant, Gazi University, Gazi Education Faculty Department of Science Education, Turkey

Yücel Gelişli, Associated Professor, Gazi University Art and Design of Faculty, Department of Education Science, Turkey University, Turkey

Maria de Fátima Goulão, Assistant Professor, Department of Education and Distance Learning – Universidade Aberta, Portugal

Jens Graff, Associate Professor, SolBridge International School of Business, Woosong University, South Korea

Mehmet Güllü, Research Assistant, Gazi University Faculty of Vocational Education, Food and Nutrition Education Department, Turkey

Emine Seda Gün, PhD Student, Hacettepe University, Institute of Social Sciences, Turkey

Ezgi Güven, Research Assistant, Gazi University, Gazi Education Faculty Department of Science Education, Turkey

Wei-Chen Hong, Master Student, National Tsing Hua University, Taiwan

Gözde İnal, Research Assistant, Kocatepe University, Faculty of Education, Preschool Education, Turkey

Mustafa Kahyaoglu, Professor, Faculty of Education, Siirt University, Turkey

Adalet Kandir, Gazi University, Education Faculty, Department of Early Childhood Education, Turkey

John E. Kesner, Associate Professor, Georgia State University, USA

Angeliki Kostopoulou, Lecturer, Birmingham City University, UK

Monika Kuchnowski, Visiting Researcher, King's College London, UK

Saime Küçükkömürler, Associate Professor, Gazi University Faculty of Vocational Education, Food and Nutrition Education Department, Turkey

Suzan Şeren Karakuş, Dr., University Faculty of Vocational Education, Food and Nutrition Education Department, Turkey

Sèverine Lanoue, Kinesiologist

Alenka Lipovec, Associate Professor, University of Maribor, Faculty of Education, Slovenia

Madeline Martyn, Researcher, Newman University College, UK

David Moisan, Auxiliary Researcher, Télé-université, Québec, Canada

Alireza Mousavi, Lecturer, System Engineering Research Group (SERG), Brunel University, UK

Emmanuel Mushayikwa, Post-doctoral Research Fellow, School of Science and Mathematics Education, University of the Western Cape, Cape Town, South Africa

Alexandra Nikitopoulos, Research Assistant, Ludwig-Maximilians-Universität München, Germany

Erdinç Öcal, PhD Student, Gazi University, Gazi Education Faculty Department of Science Education, Turkey

Esra Ömeroğlu, Professor Doctor, Gazi University, Faculty of Vocational Education Department of Child Development and Education, Turkey

Sara B. Oswalt, Assistant Professor, Department of Health and Kinesiology, University of Texas at San Antonio, USA

Pinar Özdemir, Lecturer, Hacettepe University, Turkey

Leyla Özgen, Assistant Professor, Gazi University, Art and Design of Faculty, Department of Education Food and Nutrition, Turkey

Howard P. Parette, Jr., Professor, Department of Special Education, Illinois State University, USA

Pule Alexis Phindane, Lecturer, Central University of Technology, Free State, South Africa

Carla Podda, Researcher, University of Cagliari, Italy

Ana C. Queiroz, Professor, ESEIG-IPP, Portugal

Nicole Racette, Professor, Télé-université, Québec, Canada

Jetse C. Reijenga, Department of Chemical Engineering and Chemistry, Eindhoven University of Technology, The Netherlands

Martin Roy, Full Professor

Louise Sauvé, Professor, Télé-université, Québec, Canada

Merylann J. Schuttloffel, Chair, Department of Education, Associate Professor of Education, The Catholic University of America, USA

Tuba Şengül, MA, Gazi University, Ankara, Turkey

Mona Shekarriz, PhD Student, System Engineering Research Group (SERG), Brunel University, UK

Mary H. Shann, Professor, Boston University School of Education, USA

Nancy Strow Sheley, Associate Professor, California State University, USA

Marek Smoluk, Assistant Professor (adiunkt), Department of English Philology, University of Zielona Góra, Poland

Carlo Spallanzani, Full Professor

Patricia Stringer, Assistant Professor, Emirates College for Advanced Education, Abu Dhabi

Yun-Ting Su, Master Student, National Tsing Hua University, Taiwan

Daniel Tixier, Professor, ESSEC Business School, France

Bülent Topal, *Gazi University Faculty of Vocational Education, Food and Nutrition Education Department, Turkey*

Jean-Sébastien Tourigny, *Health and Physical Educator*

Dave Trotman, *Principal Lecturer in Education, Newman University College, UK*

Stan Tucker, *Emeritus Professor of Education and Social Policy, Newman University College, UK*

Sylvain Turcotte, *Full Professor*

Ilkay Ulutas, *Assistant Professor, Department of Early childhood Development and Education, Gazi University, Turkey*

F. Özge Ünsal, *Marmara University, İstanbul, Turkey*

Inara Upmale, *PhD Student in Educational Management Program, University of Latvia, Latvia*

Özgün Uyanik, *Afyon Kocatepe University, Education Faculty Department of Early Childhood Education, Turkey*

Esther Vinken, *Service for Personnel and Organization, Eindhoven University of Technology, The Netherlands*

Yehudith Weinberger, *Lecturer, Kibbutzim College of Education, Israel*

Silke Weisweiler, *Ludwig-Maximilians-Universität München, Germany*

Carlos Gabriel Wong-Martinez, *Library Director and Associate Professor, SolBridge International School of Business, Woosong Univeristy, Korea*

David Wray, *Professor, University of Warwick Institute of Education, UK*

Tammy J. Wyatt, *Associate Professor, Department of Health and Kinesiology, University of Texas at San Antonio, USA*

Orhan Yavuz, *University Faculty of Vocational Education, Food and Nutrition Education Department, Turkey*

M.İkbal Yetişir, *Faculty of Education, Gazi University, Turkey*

Shelley Shwu-Ching Young, *Professor, National Tsing Hua University, Taiwan*

Rengin Zembat, *PhD, Marmara University, İstanbul, Turkey*

Issues on Education and Research: Volume 3: An Introduction

Gregory T. Papanikos, President, ATINER, Greece

Issues on Education and Research: Volume 3 includes selected papers on special topics in education that were presented at various conferences organized by the Athens Institute for Education and Research in 2009, 2010 and 2011. More than 400 participants attended the three conferences on Education alone from Europe, North America, South America, Africa, Australia, and Asia. The conferences' papers covered a variety of topics in education ranging from teaching and instruction to technology and economics. The current volume includes selected papers on special topics in education from those presented at the conference. All papers have undergone an academic peer review by members of the academic community. The forty nine essays presented in this volume give readers an understanding of Technology and Information, Education and the Market Place, Teaching and Teachers: Early, Primary and Secondary, Teaching and Teachers: Higher Education and Special Essays.

This conference provides a singular opportunity for presenters from all over the world to meet and share ideas with the aim of expanding the understanding of our discipline. The fifty papers in this volume were selected for inclusion after a process of blind-review by at least two of the editors and reviewers. The volume is organized roughly along traditional lines. This should not, however, mislead a reader into supposing that the topics or approaches to problems fall neatly into traditional categories.

The selection of papers chosen for inclusion gives some sense of the variety of topics addressed at the conferences. However, it would be impossible in an edited volume to ensure coverage of the full extent of diversity of the subject matter and approaches brought to the conference itself by the participants, some of whom could not travel to one another's home countries without enormous difficulty.