



13TH INTERNATIONAL CONFERENCE

AC-ESI-2018

ACADEMIC
CONFERENCE ON
EDUCATIONAL &
SOCIAL INNOVATIONS



**AC-ESI
@2018
MILAN.IT**

CO-ORGANIZED BY:

CO-SPONSORED:
THE EURASEANS -
JOURNAL ON GLOBAL SOCIO-ECONOMIC DYNAMICS

OFFICE OF GENERAL EDUCATION AND INNOVATIVE
ELECTRONIC LEARNING, SUAN SUNANDHA
RAJABHAT UNIVERSITY, BANGKOK, THAILAND

RUSSIAN PRESIDENTIAL ACADEMY OF NATIONAL
ECONOMY AND PUBLIC ADMINISTRATION
SOUTH RUSSIA INSTITUTE OF MANAGEMENT,
ROSTOV-ON-DON, RUSSIA



INTERNATIONAL ACADEMIC
CONFERENCE ON
EDUCATIONAL & SOCIAL
INNOVATIONS

AC-ESI-2018

PROCEEDINGS

MILAN, ITALY

MAY, 2018

Dear ladies and gentleman, participants of International Academic Conference on Educational & Social Innovations, academics and scholars, presenters of research centers, educational institutes and business!



Today, in the era of global innovatization, spreading of modern forms of business and public administration, the social and economic role of education for increasing global management competitiveness and self-sufficiency becomes a most important determinant, an effectiveness of international collaboration in discussing on actual educational issues and challenges is timely increasing.

And I would like to express my deep gratitude to partnered journals, educational institutions of Thailand, Russia, Indonesia, Germany, Iran, India, China whose efforts made possible this meeting of scholars and educators, interested in effective solution of global and national economy challenges using powerful resources of social, cultural and innovative success.

And, of course, I would like to thank all participants for coming here, for their wonderful and useful research.

I want to say, that Suan Sunandha Rajabhat University – as a leading public University of Thailand – is very proud to be an organizer of this significant and important conference.

To each participant I wish success, finding a new colleagues and friends, development of scientific and business contacts, new scientific discoveries that are benefit for society, business and government. And also enjoy your time in fashion and design capital of the world.

*Dr. Luedech Girdwichai, professor
President of Suan Sunandha Rajabhat University
Bangkok, Thailand*

On behalf of the Organizational Committee, I welcome you to International Academic Conference on Educational & Social Innovations, in Milan!

AC-ESI-18 attracts researchers, educators and practitioners in all fields of modern education and education institutes management.

Participants have found in these meetings an excellent opportunity to share their experiences with colleagues from distance places and often continued to cooperate with them on their subjects of interest.

AC-ESI – 2018 has been established on a global basis.

We have received more than 80 submissions from 12 countries, each submission was peer-reviewed by at least two anonymous reviewers and a total of 51 papers were accepted for presentation in the conference.

Accepted papers are scheduled for presentation in 5 big sessions.

We would like to express our sincere appreciation to all the reviewers and chairs and members of various committees of AC-ESI -2018 conferences for their precious time and expertise.

I would like to express our sincere gratitude to everyone involved in making the joint conference a success. Many thanks go to the organizing committee, special session organizers, and the organizational committees and reviewers, the conference participants, and of course, to all the contributing authors who will be sharing the results of their research.

It is our great pleasure to have you with us at the joint conference, where I hope new ties will be made and existing ones renewed and strengthened.

Please accept our best wishes for a wonderful stay in Italy!

Grazie !



Dr. Preecha Pongpeng

*Director of Office of General Education and Innovative Electronic Learning
Suan Sunandha Rajabhat University, Bangkok, Thailand*

Dear friends and colleagues!

This conference is a meaningful crystallization of international initiatives among the number of institution towards practical cooperation in interdisciplinary studies, which will be contribute to the strengthening of the national educational systems.

The characteristic of the education in our era is change at the speed of light, which led us to the consensus that experts from many countries and many different disciplines must meet and discuss the phenomena, and then suggest solutions. We should be able to delve deeper by discussing problems across different disciplines as widely as possible, and thus grasping more profound solutions and suggestions.

The motivation for this conference is to help one's country through offering individual expertise and point of view based on one's individual discipline. As we gather from many different countries and many different disciplines, I believe that we should be able to expand the scope of our efforts and must aim at more challenging global contributions.

I hope all the participants of this conference will enjoy and get opportunities to enhance relationships of knowledge exchange.

I would like to extend my sincere gratitude to the organizing committee and especially to my Thai colleagues for given abilities to be a co-organizer and member of organizational board of AC-ESI – 2018, to be involved in the process of new international tradition formation!

*Dr. Elena Zolochevskaya
Russian Presidential Academy of
National Economy and Public Administration,
South Russia institute of management,
Rostov-on-Don, Russia*

Welcome to International Academic Conference on Educational & Social Innovations!

As a co-organizer of AC-ESI-2018 we tried to make a conference aimed to create a strong platform for academic and educational international collaboration.

Sustainable economical development always requires a breaking of any boundaries between scientists, an increasing of international informational and technological exchange, new forms of cross-cultural and transnational collaboration.

Due to this I am very glad to see here, in hospitable Italy, presenters of dozens countries from four continents. It proves that our activity in a direction of common, global study of patters for effective, competitive and successful development of educational practices is important, is required by society, science and business.

Suan Sunandha Rajabhat University is strongly related with educational and science provision for progress of Thailand and AEC. Academics of our university conduct research in all areas of economical and social development of Thailand and ASEAN.

We are science partners with Thai Government, presenters of Thai and international business and non-governmental organizations. Active external collaboration of SSRU with educational and research centers of ASEAN, Europe, Australia and USA opens huge prospects of international science collaboration and science exchange.

Furthermore, for making our conference work more effective and memorable, we tried to provide maximum comfortable conditions for all our delegates.

Therefore, I hope that the AC-ESI-2018 will achieve all set objectives to provide our delegates with education, networking, leadership enhancement and sweet memories.

*Dr. Nattapong Techarattanased
Deputy director of Office of General Education
and Innovative Electronic Learning
Suan Sunandha Rajabhat University,
Bangkok, Thailand*

In the modern conditions world transfers from the multilevel system of national social systems with strictly identified boundaries of economical interests and kinds of international collaboration to the absolutely complicated mix of transnational business, national states and international organizations whose interests are actively interact, intersect, overlap and even conflict each other's! Private sector is effectively using advantages of educational and cultural globalization, is mostly able to create multilevel markets and complex market strategies, to spread internal corporative net-work outside – to the directions of states, customers of educational products, institutes and competitors.



It shows how important and how significant is international science collaboration, international research and discussions on different issues of actual education and social development. Practical experience in economical stimulation, reformation of educational systems, regional integration, governmental support of educational and research institutes, increasing of national external competitiveness is very difficult to over-evaluate.

Being an educational and science leader of Thailand and ASEAN, an effective example of business-government-science collaboration, Office of General Education and Innovative Electronic Learning at Suan Sunandha Rajabhat University is really appreciated to be a co-organizer and informational partner of Academic Conference on Educational & Social Innovations, to be involved in the processes of international science collaborations and innovative ideas' transfer! Hope these collaborations will have bright and significant prospects.

Finally, I would like to welcome all participants of AC-ESI – 2018 and to wish new science results and findings, ideas and conclusions!

*Dr. Jarumon Nookhong
Deputy Director of Office of
General Education and Innovative Electronic Learning
Suan Sunandha Rajabhat University,
Bangkok, Thailand*

As a Member of Editorial board of Academic Conference on Educational & Social Innovations - 2018 I am delighted to welcome all participants in Milan!

The aim of AC-ESI- 2018 is to serve as a primary channel of knowledge sharing and the promotion of educational and social innovations internationally.

An important goal of the conference is to encourage learning from each other by exchanging ideas and views, and building networks.

A successful conference cannot be organized without the effort of many persons.

I would like to thank both working teams from the Office of General Education and Innovative Electronic Learning Suan Sunandha Rajabhat University and South Russia institute of management of Russian Presidential Academy of National Economy and Public Administration for their enormous contribution towards the detailed arrangement of this conference.

Furthermore, I would like to express my gratitude to the authors who submitted their papers to the AC-ESI 2018 as well as reviewers for their contributions and effort to an excellent conference proceeding.

Finally, I hope you will enjoy the conference and have a wonderful time during your stay in Italy.



Warmest Regards,

*Mr. Apisit Rattanatanurak
Deputy director of office of
General Education and Innovative Electronic Learning
Suan Sunandha Rajabhat University,
Bangkok, Thailand*

Warm greetings from AC-ESI – 2018 organizing committee!

As a coordinator of our International conference organization I tried to do everything for making this year conference the best one!

We spent many hours for choosing venue; we spent gigabytes of internet traffic sending mails and calls for papers!

Hope, all these spent were not useless. And our conference will be very successful, productive and important for society, science and business.

I am glad to note, that a number of AC-ESI – 2018 participants is still high!

Geography of our conference is covered 9 countries from Asia, East Europe, Middle East and even Africa!

Enjoy Italian natural and cultural heritage, world most famous outlets and restaurants! Don't forget to taste risotto with local wine, visit Da Vici museum and listen magic opera in La-Scala!

And to get new knowledge, new ideas and new friends from AC-ESI-2018!!!



*Dr. Denis Ushakov, professor
AC-ESI – 2018 coordinator
International college
Suan Sunandha Rajabhat University,
Bangkok, Thailand*

AC-ESI-2018

ORGANIZATIONAL BOARD

Dr. Preecha Pongpeng (Office of General Education and Innovative Electronic Learning, Suan Sunandha Rajabhat University, Bangkok, Thailand)

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**INTERNATIONAL ACADEMIC CONFERENCE ON
EDUCATIONAL & SOCIAL INNOVATIONS**

AC-ESI – 2018 @ MILAN.IT

=AGENDA=

- Day 1** 07 May 2018
Venue: Sheraton Milan Malpensa Airport Hotel, Italy
- 13.00 Registration open Foyer
Participants arrival, registration
- 14.00 Organizational meeting Meeting Room
Networking
- 15.00 **Seminar “International publishing: guidelines to success”**
By Ms. Darina Prokhorova
Editor –in – chief of Journal of International Studies, Poland
- 17.00 Welcoming dinner Restaurant

- Day 2** 08 May 2018
Venue: Sheraton Milan Malpensa Airport Hotel, Italy
- 9.00 Opening ceremony Meeting Room
Welcome speeches:
Dr. Preecha Pongpeng
*Director of Office of General Education and Innovative Electronic Learning,
Suan Sunandha Rajabhat University, Bangkok, Thailand*
Dr. Zolocheskaya Elena
*Dean of faculty of Public Administration,
South Russia institute of Management of
Russian Presidential Academy of National Economy and Public Administration*
Dr. Bundit Pungnirund
*Dean of College of Innovations and Management, Suan Sunandha Rajabhat
University, Bangkok, Thailand*
Ms. Darina Prokhorova
*Editor –in – chief of Journal of International Studies,
Poland*
Dr. Oleg Patlasov
Omsk Humanitarian Academy, Omsk, Russia
Dr. Denis Ushakov
Organizational board of AC-ESI– 2018
- 09.40 **University’s Management And Students’ Satisfaction: An Empirical Study
Through Structural Equation Modelling**
Key-note speech by Dr. Johan W de Jager
*Tshwane University of Technology,
Pretoria, South Africa*
- 10.30 Group photo
- 10.40 **Coffee-break** Foyer
- 11.00 **Formation of the Social Successfulness of Students with Disabilities in the
System of Continuous Inclusive Education**
Key-note speech by Dr. Preecha Phongpheng
*Office of General Education and Innovative Electronic Learning Suan Sunandha
Rajabhat University, Bangkok, Thailand*
- 11.40 **Human capital and decentralization of education (the case of Tlajomulco de
Zuniga Jalisco, Mexico)**
Key-note speech by Dr. José G. Vargas-Hernández
*University Center for Economic and Managerial Sciences,
University of Guadalajara, México*
- 12.20 **Educating Young People in Multicultural Environment of Higher
Education Institution**
Key-note speech by Dr. Nattapong Techarattanased
*Office of General Education and Innovative Electronic Learning Suan Sunandha
Rajabhat University, Bangkok, Thailand*
- 13.00 **Lunch** Restaurant

14.00	Session 1 – Environmental education: ways and challenges of implementation	
14.00	Sinchai Poolklai & Adisak Chuchat	
14.20	Jürgen Drissner	
14.40	Pattamaporn Kaewkongka & Apirati Triyawat	
15.00	Wipada Chaiwchan & Kittipat Bualek	
15.20	Kvetoslava Rešetová	
15.45	Coffee break	Foyer
16.00	Pawinee Ratabakorn & Uraiwan Tunmukul	
16.20	Anosha Rojanapanich & Prem Thanatripop	
16.40	Pachara Wangmee & Worakarn Jantarasingharn	
17.00	Unnop Panpuang & Saysunee Sangphueak	
18.00	Dinner	Restaurant

Day 3	09 May 2018	
	Venue: Sheraton Milan Malpensa Airport Hotel, Italy	
08.30	Registration open	Foyer
09.00	Session 2 – Human capital: educational and managerial issues of formation and development	
09.00	Pramsuk Huanprapai & Sasinan Prajongjai	
09.20	Ria Mardiana Yusuf	
09.40	Nattaporn Srichana & Warawut Chuenkrut	
10.00	Pordee Sukpun & Paweena Sribunrueng	
10.20	Aekkaphob Intarapoo & Pattiya Traiteepung	
10.45	Coffee – break	Foyer
11.00	Bundit Pungnirund	
11.20	Sarawut Yamdee & Supas Amornchantanakorn	
11.40	Mahir Pradana	
12.00	Pimporn Thongmuang	
12.20	Larisa Nevskaya & Svetlana Akhmetova	
12.40	Lunch	Restaurant
13.30	Session 3 – Modern teaching: modern technologies and practical methods	
13.30	Nuntiya Noichun & Narasak Phunaploy	
13.50	Zhang Li-Ping	
14.10	Watchara Sungkabol & Sasiwimon Maneewong	
14.30	Awad Soliman Keshta	
14.50	Kanpetch Saranontawat & Pimporn Thongmuang	
15.10	Toratane Munegumi	
15.30	Coffee – break	Foyer
15.50	Arias Sinthu & Aknarin Piyaphanyamongkol	
16.10	Nutcha Phasuk & Natwalun Wangnil	
16.30	Krit Chaisaengduean, Tospon Pimpa	
16.50	Farangis Saeedi	
17.10	Arunroong Wongkungwan & Sathiya Phunaploy	
18.00	Dinner	Restaurant

Day 4	10 May 2018	
	Venue: Sheraton Milan Malpensa Airport Hotel, Italy	
08.30	Registration open	Foyer
09.00	Session 4 – Management in educational institutes: modern issues and future prospects	
09.00	Pennapha Meeto & Raweewan Khankham	
09.15	Amber Osman & Muhammad Imtiaz Subhani	
09.30	Bundit Phrapratanporn & Kulnidawan Dumkum	
09.45	Vera Gnevasheva	
10.00	Yuttana Rattanasuwan & Piyanun Thanchai	
10.15	Ratanaporn Sukserm & Thidarat Choknakawaro	
10.30	Juan Francisco Aguirre Chavez	
10.45	Coffee – break	Foyer
11.00	Supapong Wimonchailerk & Rutchanewan Panbua	
11.15	Runglaksamee Rodkam & Paphitchaya Silpaksa	
11.30	Vanthangpui Khobung	
11.45	Aina Jacob Kola	
12.00	Paakpoom Klaythong & Patcharida Wisaiket	
12.15	Arun Sumdee & Anutsara Chanprapas	
12.30	Lunch	Restaurant
13.30	Session 5 – Usage of ICT and social networking in educational process	
13.30	Kiattiphoom Phachuen	
13.50	Chun-Pei Lin	
14.10	Piched Girdwichai	
14.30	Siriporn Meenanant & Naruecha Narapong	
14.50	Atef Abuhmaid	
15.10	Pirawat Chaiyaphoomsakul, Sawitree Charamporn & Apisit Rattanatanurak	
15.30	Coffee – break	Foyer
15.50	Nuntiya Noichun	
16.10	Nuntinee Nakdontee & Patompong Punnabhum	
16.30	Sudarat Srirama & Krisana Aree	
16.50	Vasyuta Eugenia	
17.10	Grigoryeva Natalya & Kolycheva Zhanna	
17.30	Dinner	Restaurant
	Awards and closing ceremony	

LIST OF SESSIONS:

	Day 2	Meeting room
	14.00-17.30	
	Session 1	Environmental education: ways and challenges of implementation
		Chairman: Dr. Jürgen Drissner
1	Sinchai Poolklai Adisak Chuchat <i>Suan Sunandha Rajabhat University, Bangkok, Thailand</i>	Environmental education and behavioral change
2	Jürgen Drissner <i>University of Ulm, Germany</i>	Environmental education outside school: effects of a half-day teaching programme
3	Pattamaporn Kaewkongka Apirati Triyawat <i>Suan Sunandha Rajabhat University, Bangkok, Thailand</i>	“Public-based-learning”: environmental controversies for pedagogical purposes
4	Wipada Chaiwchan Kittipat Bualek <i>Suan Sunandha Rajabhat University, Bangkok, Thailand</i>	Considering students’ environmental self determination
5	Kvetoslava Rešetová <i>Slovak University of Technology in Bratislava, Slovakia</i>	Publishing opportunities of doctoral candidates
6	Pawinee Ratabakorn Uraiwan Tunnukul <i>Suan Sunandha Rajabhat University, Bangkok, Thailand</i>	Educational environment for teenagers’ moral relations development
7	Anosha Rojanapanich Prem Thanatipop <i>Suan Sunandha Rajabhat University, Bangkok, Thailand</i>	Analyzing business factors of students’ environmental attitudes
8	Pachara Wangmee Worakarn Jantarasingharn <i>Suan Sunandha Rajabhat University, Bangkok, Thailand</i>	Conceptual model for teaching the relationship of daily life and human environmental impact
9	Unnop Panpuang Saysunee Sangphueak <i>Suan Sunandha Rajabhat University, Bangkok, Thailand</i>	Sustainable development and teaching perspectives

Day 3 Meeting room
09.00-12.30

Session 2

Human capital: educational and managerial issues of formation and development

Chairman: Dr. José G. Vargas-Hernández

- 1 Pramsuk Huanprapai
Sasinan Prajongjai
*Suan Sunandha Rajabhat University,
Bangkok, Thailand*
Social capital and knowledge management in the context of staff empowerment
- 2 Ria Mardiana Yusuf
*Hasanuddin University,
Makassar, Indonesia*
The practice of human resource strategic roles by "ulrich" model
- 3 Nattaporn Srichana
Warawut Chuenkrut
*Suan Sunandha Rajabhat University,
Bangkok, Thailand*
Student's research work as the condition of professional education
- 4 Pordee Sukpan
Paweena Sribunrueng
*Suan Sunandha Rajabhat University,
Bangkok, Thailand*
University students' entrepreneurial intentions: ways for in-study implementation
- 5 Aekkaphob Intarapoo
Pattiya Traiteepung
*Suan Sunandha Rajabhat University,
Bangkok, Thailand*
Strengthening the basic competence of sciences for master students
- 6 Bundit Pungnirund
*Suan Sunandha Rajabhat University,
Bangkok, Thailand*
Interpersonal intelligence: how gender difference impacts
- 7 Sarawut Yamdee
Supas Amornchantanakorn
*Suan Sunandha Rajabhat University,
Bangkok, Thailand*
Egocentrism and development of students identity
- 8 Mahir Pradana
*Telkom University, Bandung
Indonesia*
Do employees' performances depend on their motivations? (case study at Indonesian National bureau of plantation)
- 9 Pimporn Thongmuang
*Suan Sunandha Rajabhat University,
Bangkok, Thailand*
Self-health care behaviors of elderly
- 10 Larisa Nevskaya
Svetlana Akhmetova
*Perm National Research Polytechnic University,
Russia*
Current trends in the development of innovative activeness of enterprise personnel

Day 3 Meeting room
13.30-17.30

Session 3

Modern teaching: modern technologies and practical methods

Chairman: Dr. Bundit Pungnirund

- 1 Nuntiya Noichun
Narasak Phunaploy
*Suan Sunandha Rajabhat University,
Bangkok, Thailand*
Problem based learning (PBL-civics) model development to improve the motivation and learning outcomes
- 2 Zhang Li-Ping
*Yu Qiu Shanghai University of
Engineering Science,
Shanghai, China*
Study of cooperative education pattern
- 3 Watchara Sungkobol
Sasiwimon Maneewong
*Suan Sunandha Rajabhat University,
Bangkok, Thailand*
Analysis of mathematical education on economics specialty
- 4 Awad Soliman Keshta
*Islamic University of Gaza (IUG),
Gaza, Palestine*
The effectiveness of a blended learning program on developing palestinian tenth graders english writing skills
- 5 Kanpetch Saranontawat
Pimporn Thongmuang
*Suan Sunandha Rajabhat University,
Bangkok, Thailand*
Innovative methods of teachers' practice-orientation development
- 6 Toratane Munegumi
*Naruto University of Education,
Naruto, Tokushima, Japan*
Considering future directions for the specialized evaluation of educational programs for science teachers
- 7 Arias Sinthu
Aknarin Piyaphanyamongkol
*Suan Sunandha Rajabhat University,
Bangkok, Thailand*
Dialogue-based teaching model in college English teaching
- 8 Nutchaphasuk
Natwalun Wangnil
*Suan Sunandha Rajabhat University,
Bangkok, Thailand*
Business field trips impact on education processes
- 9 Krit Chaisaengduean
Tospon Pimpa
*Suan Sunandha Rajabhat University,
Bangkok, Thailand*
Project-based hybrid business education of graduate and undergraduate group
- 10 Farangis Saeedi
Guilan University, Rasht, Iran
The effect of negotiation on second language acquisition
- 11 Arunroong Wongkungwan
Sathiya Phunaploy
*Suan Sunandha Rajabhat University,
Bangkok, Thailand*
Environentors: mentoring at-risk through university partnerships

Day 4 Meeting room

Session 4 Management in educational institutes: modern issues and future prospects
09.00-12.30

Chairman: Dr. Muhammad Imtiaz Subhani

- | | | |
|----|---|--|
| 1 | Pennapha Meeto
Raweewan Khankham
<i>Suan Sunandha Rajabhat University,
Bangkok, Thailand</i> | Academic freedom and leadership in modern academic institutions |
| 2 | Amber Osman
Muhammad Imtiaz Subhani
<i>Iqra University, Karachi, Pakistan</i> | Misuse of higher education |
| 3 | Bundit Phrapratanporn
Kulnidawan Dumkum
<i>Suan Sunandha Rajabhat University,
Bangkok, Thailand</i> | Extension analysis of employee management based on social network model |
| 4 | Vera Gnevasheva
<i>Moscow University for the Humanities,
Moscow, Russia</i> | Student's view of education as the merit and private economic goods |
| 5 | Yuttana Rattanasuwan
Piyanut Thanchai
<i>Suan Sunandha Rajabhat University,
Bangkok, Thailand</i> | High school students' conceptions of learning in different domains |
| 6 | Ratanaporn Sukserm
Thidarat Choknakawaro
<i>Suan Sunandha Rajabhat University,
Bangkok, Thailand</i> | Educational pedagogy for sustainability: developing programs to transform behaviors |
| 7 | Juan Francisco Aguirre Chavez
<i>Autonomous University of Chihuahua,
Chihuahua, México</i> | A gender study on college students' academic self-efficacy |
| 8 | Supaporn Wimonchailerk
Rutchanewan Panbua
<i>Suan Sunandha Rajabhat University,
Bangkok, Thailand</i> | Multi-subject incentive cooperation of students' network entrepreneurial education |
| 9 | Runglaksamee Rodkam
Paphitchaya Silpaksa
<i>Suan Sunandha Rajabhat University,
Bangkok, Thailand</i> | School-community participation in developing a local sustainability agenda |
| 10 | Vanthangpui Khobung
<i>Educational Research and Training NCERT
Bhopal, India</i> | Tribal self-help groups in Manipur: a gender perspective |
| 11 | Aina Jacob Kola
<i>College of Agriculture, Igboora,
Oyo State, Nigeria</i> | Repositioning science education in nigerian colleges of education through public-private partnership (PPP) |
| 12 | Paakpoom Klaythong
Patcharida Wisaiket
<i>Suan Sunandha Rajabhat University,
Bangkok, Thailand</i> | Vocational education by transferring notions and all-round cultivation |
| 13 | Arun Sumdee
Anutsara Chanprapas
<i>Suan Sunandha Rajabhat University,
Bangkok, Thailand</i> | The function of physical education for building social values |

Day 4 Meeting room

Session 5 Usage of ICT and social networking in educational process
13.30-17.30

Chairman: Dr. Atef Abuhmaid

- | | | |
|----|---|---|
| 1 | Kiattiphoom Phachuen
<i>Suan Sunandha Rajabhat University,
Bangkok, Thailand</i> | Application of classroom assistant software based on Android |
| 2 | Chun-Pei Lin
<i>Huaqiao University, Quanzhou, China</i> | An effect of existing knowledge assets to inbound/outbound disruptive innovation |
| 3 | Piched Girdwichai
<i>Suan Sunandha Rajabhat University,
Bangkok, Thailand</i> | Analytical study on improving expertise of university students through innovative training project |
| 4 | Siriporn Meenanon
Naruecha Narapong
<i>Suan Sunandha Rajabhat University,
Bangkok, Thailand</i> | College students' information quality and study on correspondence and education system in "Internet+" era |
| 5 | Atef Abuhmaid
<i>Middle East University,
Amman, Jordan</i> | Information and communication technology integration within the practicum |
| 6 | Pirawat Chaiyaphoomsakul
Sawitree Charamporn
Apisit Rattanatanurak
<i>Suan Sunandha Rajabhat University,
Bangkok, Thailand</i> | Video converter using GPU on web application |
| 7 | Nuntiya Noichun
<i>Suan Sunandha Rajabhat University,
Bangkok, Thailand</i> | Applications as IT-element of special disciplines teaching |
| 8 | Nuntinee Nakdonte
Patompong Punnabhum
<i>Suan Sunandha Rajabhat University,
Bangkok, Thailand</i> | Designing of individual educational path of teacher's professional development in conditions of information educational environment |
| 9 | Sudarat Srma
Krisana Aree
<i>Suan Sunandha Rajabhat University,
Bangkok, Thailand</i> | Trend of visual communication design education in the cultural and creative industries |
| 10 | Natalya Grigoryeva
<i>Southern University (IMBL), Russia</i>
Zhanna Kolycheva
<i>Don State Technical University, Russia</i> | Taxation and employment: considering relationships and factors of efficiency |
| 11 | Vasyuta Eugenia
<i>The Russian Presidential Academy Of
National Economy And Public Administration,
South Russia Institute of Management,
Rostov-on-Don, Russia</i> | Medical tourism in Russia: growth potential and competitiveness issues |

CONSIDERING STUDENTS' ENVIRONMENTAL SELF DETERMINATION

Wipada Chaiwchan
Kittipat Bualek

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According to self-determination theory, social contexts that support students' basic psychological needs of autonomy, competence, and relatedness foster motivation toward behaviors that are valued in that social context.

This study investigated the sociocontextual elements of a learning environment that support or undermine students' basic psychological needs as they relate to solving environmental problems. Individual stimulated-recall interviews were conducted with a student group after they participated in environmental problem-solving tasks over the course of a semester. Data were taken on students' reported feelings of competence, relatedness, and autonomy, and the classroom features to which they attributed those feelings. Six features of the instructional environment were inferred to be supportive of students' basic psychological needs. These are referred to as curricular interconnectivity, conceptualization problem sets, instructional guidance, socio-scientific integration throughout the curriculum, student-guided lecture, and cohesive group dynamics. One feature of the instructional environment seemed to undermine students' basic psychological needs; it is referred to as the "anything-goes" norm. These features are explained with supporting evidence and consequences regarding students' needs for competence, autonomy, and relatedness. The article concludes with a discussion of considerations when constructing science curricula, given the impacts on environmental motivation.

Keywords; curriculum design, environmental motivation, self-determination theory

Introduction

Environmental educators strive to produce scientifically literate citizens who make informed decisions, especially when those decisions have environmental consequences. Darner (2009) has proposed the use of self-determination theory as a guide for the construction of environmental education (EE) curricula that foster environmental self-determination. To provide a definition of environmental self-determination, we must first explore self-determination theory (SDT). SDT is a macrotheory of human motivation that recognizes human behavior as result of both psychological states of mind, as well as the social contexts in which humans act.

All human behavior is situated in a larger social context that holds specific values, beliefs, and norms. Social contexts also serve to support or undermine individuals' three basic psychological needs of autonomy, competence, and relatedness. An individual's sense of autonomy refers to his/her need to feel like his/her behaviors arise from the self and are not controlled by someone outside the self (Deci, Koestner, & Ryan, 2001; Deci & Ryan, 1990; Ryan & Deci, 2002).

A need for competence refers to a person's need to feel as if he/she has the ability to accomplish tasks (Deci & Ryan, 1990; Ryan & Deci, 2002). A need for relatedness refers to a person's need to feel as if he/she belongs in a social group and his/her contributions to the group are valued (Deci & Ryan, 1990; Ryan & Deci, 2002).

When a social context fulfills these three basic psychological needs for a particular person, he/she feels motivated toward behaviors that are valued in that social context (Deci & Ryan, 1990). The degree to which the three basic psychological needs are fulfilled within a social context roughly correlates to the quality of motivation the individual experiences toward behaviors that are valued in that context.

Motivation occurs on a continuum in which self-determination is the highest quality of all motivational types (Deci & Ryan, 1990; Ryan & Deci, 2002). Self-determination is the highest quality of all the motivational types because ample evidence indicates that self-determined behaviors are long-lasting and continue even if they become more difficult to perform (Deci, Ryan, & Koestner, 2001; Ryan & Deci, 2002).

Outside of EE settings, Pelletier (2002) and colleagues (Green-Demers, Pelletier, & Ménard, 1997; Pelletier et al., 1998) have demonstrated this applies to pro-environmental behaviors. Self-determination occurs when a person performs a behavior because it is pleasurable in its own right or when the behavior is fully integrated into the person's personality, so that if he/she did not do the behavior, he/she would not feel true to him/herself (Ryan & Deci, 2002). Such behavioral integration occurs for behaviors that are valued in social contexts in which the three basic psychological needs are fulfilled (Deci & Ryan, 1990).

The integration occurs to the extent that they are no longer perceived as outside influences but rather arising from the self (Deci & Ryan, 1990). Therefore, SDT indicates that social contexts that value pro-environmental behaviors while simultaneously fulfilling the three basic psychological needs will foster environmental self-determination, which is an impetus toward pro-environmental behaviors that results from either the pleasure derived from performing the behavior or the behavior being integrated into one's identity. So environmental educators should ask themselves: How do we generate a social context in our classrooms that both values pro-environmental behaviors and fulfills students' basic psychological needs so that such behaviors do become integral parts of their personality?

Darner (2009) proposed several curricular features that are likely to do so, which are summarized here. In order to support students' sense of autonomy in an environmental education classroom, Darner (2009) suggests offering choices to students about which environmental issues to investigate, as well as compelling them to generate plausible environmental solutions to those problems so that they feel environmental actions arise from the self, rather than from pressure from a teacher or other community member telling them what environmental behaviors they should be performing.

Competence may be supported by posing optimally challenging situations to students that both make use of and sophisticate their scientific conceptions that relate to environmental problems. By engaging in such problems and constructing sophisticated conceptions of scientific principles and phenomena, students realize they possess the cognitive tools and are capable of solving environmental problems. Finally, to support students' sense of relatedness, educators can incorporate resources from the students' communities into the curriculum.

This can be accomplished by using local environmental problems as case studies that present students with optimally challenging situations in the classroom. Similarly, students can be given assignments to interview family or community members about a local environmental problem. The goal in these curricular elements is to incorporate into the environmental education classroom those communities that likely already support students' sense of relatedness so that need satisfaction extends into the classroom.

Although these proposed curricular features are informative, they are speculative. Darner (2011) presented preliminary empirical evidence that an SDT-informed curriculum can produce measurable student outcomes in the form of decreased environmental amotivation (i.e., lack of motivation), but there was no direct examination of the effects of specific instructional features incorporated into the SDT-guided curriculum.

This study aims to identify those curricular features that students find to be supportive of their three basic psychological needs. The goal is to use students' comments about need satisfaction while engaged in a problem-based life sciences course in order to generate hypotheses about specific elements of their classroom that support need satisfaction.

Methods

Research Setting

This study took place in Suan Sunanda Rajabhat University, Bangkok, Thailand.

Three general phases comprised each curricular unit.

In the first phase, the scientific and social aspects of a new issue was introduced by looking at the environmental issue through an everyday resource, such as a local newspaper article, interviews of community members, guest speakers from the community, or a field trip. The introduction concluded with a summarizing whole class discussion. The introduction was followed by engaging in a problem set (Darner, 2007).

For each problem, student groups were given a prompt asking them to consider and discuss a situation and devise a solution or explanation for the phenomenon being addressed by the problem. Student groups would then share their explanations with the class in a whole class discussion, using large dry-erase boards that each group was provided.

This process was repeated several times, depending on the particular problem set. Each problem set concluded with a general conclusion that was integrated into the final phase of the unit. To conclude each unit, both scientific and social aspects of the problem were addressed in a Socratic-style (i.e., question-driven) lecture in which students were compelled to reflect on the problem-solving activity.

Assessment was accomplished through five exams, laboratory worksheets and homework, reflection writing, a group project, and participation in class discussions. Students performed both classroom and laboratory activities in the same groups, which were determined at the beginning of the semester through the use of the 15-item New Ecological Paradigm (NEP; Dunlap et al., 2000).

This instrument measures a person's pro-environmental orientation (or lack thereof). Heterogeneous groups of 3-4 students were formed according to responses on the NEP. This was done to attempt to avoid having a group(s) that only contained students who do not care about the environment and the issues addressed in the course.

During every class session, beginning on the fourth session, a video camera was set up to record the participant group, while an additional camera recorded the entire class. All three

students in the group were interviewed three times throughout the semester; each interview occurred following a class period in which one of the above problem sets was addressed.

The interviews were stimulated-recall interviews, meaning that the interviewer and participant had access to the recording of the problem-solving activity during the interview, so that specifics of the activity could be isolated during the interview. Two trained science education colleagues conducted the interviews.

Results

Seven features of the environmental education classroom were inferred to be relevant toward the support or undermining of students' basic psychological needs, as they relate to environmental self-determination. These features are referred to as: curricular interconnectivity, conceptualization problem sets, instructional guidance, socio-scientific integration throughout the curriculum, student-guided lecture, cohesive group dynamic, and the "anything-goes" norm. Each of these will be explained in turn.

Conclusion

This study resulted in numerous hypothesized features that likely foster environmental self-determination in a science course. These features include the use of conceptualization problem sets, an interconnected curriculum, and socio-scientific integration.

Conceptualization problem sets allow students to mobilize their scientific understanding in powerful zones of proximal development that become established among group members. This supports students' feelings of competence by demonstrating their ability to solve real environmental problems.

Reaching successful problem-solving as a group supports group members' sense of belonging in their group. And the open-endedness of the problem sets allow students choice, which supports their sense of autonomy, in how to approach the environmental problems. The interconnected curriculum provides students multiple representations of scientific concepts, thereby enhancing their scientific understanding and ability to solve environmental problems. In other words, such a curricular format supports students' sense of competence when solving environmental problems.

Finally, socio-scientific integration in the curriculum supports students' sense of relatedness to each other, their communities, and environmentalism, because the curriculum explicitly highlights the environmental problems embedded in their local community.

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ENVIRONMENTAL EDUCATION OUTSIDE SCHOOL: EFFECTS OF A HALF-DAY TEACHING PROGRAMME

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The "Green Classroom" in the Botanical Garden of the University of Ulm is a learning forum outdoor school that is used by about 2,500 school students annually. Its educational concept is based on experiential learning and is geared towards expanding students' biological knowledge and awareness of small animals such as invertebrates and insects. In the first study, 66 students (grade 4) were asked to draw a picture of a pond as a habitat. 33 of these students had previously visited the "Green Classroom" (intervention group). Students of the intervention group drew more of the smaller types of animals in their pictures and furthermore a bigger variety of species of animals and plants than the control group. In the second study, the same students (66, grade 4) were given a list of animal species, and were asked to tick those which are typical to a pond. Students who had visited the "Green Classroom" ticked more animals off correctly than their peers in the control group.

Keywords: Learning Outside School, Small Animals (Invertebrates, Insects), Knowledge about Small Animals, Experiential Learning

Introduction

When children are asked to list the species they know, they generally talk about animals that are not found in their own environment (Lock, 1995). Vertebrates -seemingly more remarkable and extraordinary- are mentioned, whereas small animals (invertebrates and insects) are hardly ever discussed (Kellert, 1993; Snaddon et al, 2008). Small animals receive little attention from media in comparison to birds or large vertebrates (Lock, 1995; Snaddon and Turner 2007; Snaddon et al, 2008). The majority of invertebrates are harmless and crucial for our ecological system (Wilson, 1987).

Moreover, many of them are classed as endangered species or on the brink of extinction (Wilson, 1987; Bixler et al, 1999; Wagler and Wagler, 2011). This extinction has been dramatically accelerating, and it is difficult to predict the outcome (Rockström et al, 2009). If children are not familiar with the animals of their own natural environment, they will find it difficult to address issues of biodiversity and ecological problems (Weilbacher, 1993; Heywood, 1995). In a nutshell, if children are not even aware of small animals how can these be protected for future generations?

Against this background many authors (Kellert, 1993; Bixler et al, 1999; Snaddon and Turner 2007; Snaddon et al, 2008; Wagler and Wagler, 2011) argue for raising young peoples' awareness and knowledge of small animals.

Opinions about the relationship between knowledge on the one hand and ecological awareness on the other hand, vary considerably. However, many researchers assume that an important positive relationship actually exists (Bogner, 1998; Kaiser et al, 1999; Barraza and Walford, 2002; DiEnno and Hilton, 2005). The rationale behind this assumption is that 'we can only protect what we know'. Furthermore, we can only miss a species if we have had

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