



The 2nd

INTERNATIONAL SEMINAR ON
EDUCATION TECHNOLOGY

ISET

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EDUCATION TECHNOLOGY ISET



THE 2ND INTERNATIONAL SEMINAR ON EDUCATIONAL TECHNOLOGY 2016

Conservation Education in the Era of Innovation and Technology

Auditorium Unnes, Sekaran, Gunungpati, Semarang, Indonesia
25th May 2016

Organized by:
Postgraduate Program
Semarang State University

In Collaboration with:
University of Muhammadiyah Semarang
Sultan Agung Islamic University

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Foreword

Technology advancements provide great benefits to the lives and living. Everything becomes easier and practical, while works could be more efficient from the aspect of time, money and manpower. On the other hand, unresponsible technologies could also cause damages to the environment, neglection of the genuine social and cultural values, and even could affect human character. Therefore, conservation ideas and efforts are very urgent to safeguard the impact of destructive technology.

The 2nd International Seminar on Educational Technology (ISET) is an international seminar and a scientific collaborative forum organized by the Postgraduate Program of Semarang State University in order to celebrate the 51th Dies-natalis of Semarang State University and the 19th Anniversary of Postgraduate Program. ISET invites researchers, practitioners of industrial sector, public and private stakeholders, educators from various fields come from different countries to exchange and share knowledge. More specifically, 2nd ISET is expected to provide acceleration of technology and innovation, progression of industry and economic growth, solve multidimensional crisis, and enhance education reformation.

Theme

Conservation Education in the Era of Innovation and Technology

Topics of interest for submission include but are not limited to:

1. Development of new and environmental friendly technology and engineering, bio and nano technology, bioenergy
2. Impact of technology emergence to environment and public health, medical technology, pharmaceuticals, health and safety
3. The role of education in internalization of conservation values/insight, including: education management, administration, education technology, curriculum, teaching and learning approach, evaluation and assessment method.
4. Conservation of arts and culture, include: traditional ornamentation and crafts, performing arts, fine arts and sculpture
5. Creative economy based on local potential and wisdom in efforts to increase competitiveness in the era of Asean Economic Community (AEC)
6. Development of human resources and capital, vocational and career education, entrepreneurship, technopreneurship, and cyberpreneurship
7. Information and communication technology, language studies, oral tradition
8. Natural Science, Social Science and Humanity

Welcome from the Rector of Semarang State University

I take great pleasure in welcoming you to 2nd International Seminar on Education Technology (ISET) in Semarang. The seminar is conducted in the context to 51th years Semarang State University and 19th Postgraduate Program anniversary.

Seminar is the right place to enhance our academic quality and awareness on issues related to “conservation” as one of our vision. It will be privilege for me to open this seminar today, where all researcher, expert, and academics sit together for knowledge sharing and discussion. The issues of the seminar is in line with the vision of Semarang State University as a conservation university, not only for environment issues, but also in character building.

Conservation values can be proliferated by the awareness to the cultural heritage, and in turn, can be developed by embarking from conservation and local values. Therefore, this seminar will give a great contribution to our effort to proliferate the cultural preservation as an integral and significant part of our national identity.

I extend my gratitude to all the key speakers for attending, and the ISET committee for their efforts to organize this prestigious event. I wish all the speakers and participants of this International Seminar could get the best benefit of this special event.

Prof. Dr. Fathur Rokhman, M.Hum.
Rector of Semarang State University

Welcome from the Director of the Postgraduate Program

Postgraduate Program of Semarang State University is intends to enhance the academic atmosfeer through seminars. At least 5 seminars national and international are conducted every year. The 2nd International Seminar on Education Technology is a special seminar organized to celebrate the 51th anniversary of Semarang State University and . I am very pleased to provide some introductory remarks for the Program Book of the seminar.

I wish to thank the invited speakers for their great attention in sharing their knowledge, and also to the participants for attending the seminar. I would also like to congratulate the committee for the hard work, thoughts, and time dedicated to this seminar.

With more than 800 participants, the seminar examines issues concerning the education in the era of technology., there will be a stronger bond amongst academics, professionals, teacher, students especially those with the interest in education. Postgraduate Program of Semarang State University will always play its significant role in mediating this important task.

I wish you all a wonderful seminar.

Prof. Dr. Achmad Slamet, M. Si.
Director of Postgraduate Pogram
Semarang State University

Welcome from the Chair of Organizing Committee

The year 2016 is declared by Unnes as the Year of Innovation Acceleration, indicate commitment to technology advancement. However, as the university of conservation, Unnes is also concern about embedding the conservation values.

After the great success ISET in October 2014, we are coming back with the 2nd ISET 2016, with the theme Conservation Education in the Era of Innovation and Technology. More specifically, 2nd ISET is expected to provide acceleration of technology and innovation, progression of industry and economic growth, solve multidimensional crisis, and enhance education reformation.

The 2nd International Seminar on Educational Technology (ISET) is a scientific forum organized by the Postgraduate Program of Semarang State University in order to celebrate the 51th Dies-natalis of Semarang State University and the 19th Anniversary of Postgraduate Program.

It is a pride for us, that this seminar is organized in collaboration with two major universities in Semarang, the University of Muhammadiyah Semarang (Unimus) and Sultan Agung Islamic University (Unisula), integrated by utilizing two-way teleconference technology.

On behalf of the Organizing Committee, I would also like to express my gratitude to our invited speakers Prof. Dr. Abdul Latif Ahmad from Universiti Sains Malaysia, Associate Prof. Atchara Purakom, Ph.D from Kasetsart University, and Gregor J. Sahler from Sparkassentiftung für Internationale Kooperation, for their attendance to share their knowledge. I would also like to welcome all of participants of ISET. And last but not least, for all the committee members, thank you for your best efforts and hard work.

Dr. Ir. Rodia Syamwil, M. Pd.
Chair of the Commitee

Invited Speakers

Prof. Dr. Abdul Latif Ahmad

School of Chemical Engineering, Universiti Sains of Malaysia



Prof. Dr. Abdul Latif was the Dean of School of Chemical Engineering, USM for almost 6 years (2005-2010) which later promoted to be the Research Dean, Science Fundamental Platform for 3 years (2010-2012). He obtained his BEng, MSc and PhD from the University of Wales, Swansea, UK. When he was promoted to his professorship, he was then the youngest professor being promoted. He has a wide experience in administration and research. He has put the School of Chemical Engineering, USM on the global map as top 100 Faculty in the world according to QS ranking. He involves actively at Ministry level in many committees and different Task Force related to research policy and research grant evaluation. Numerous local

universities invited him to share his experience as a mentor to junior lecturers. Being a Chartered Engineer and a Fellow to The Institution of Chemical Engineers (IChemE), UK, he is frequently being appointed by IChemE to accredit Chemical Engineering Program in Europe, Australia, New Zealand, Sri Lanka, Singapore and Malaysia. He is an internationally renowned researcher and an internationally acclaimed award winning researcher in membrane science and technology. Due to that, the King Saud University has appointed him to hold the Geoscience Chair to help King Saud University's researchers to lift up their research visibility internationally. His enthusiasm and dedication towards his research works have been reflected in his achievements in winning numerous scientific invention awards. To-date, a total of 50 personal achievement awards and 69 research product awards have been won. Recently, he was awarded by The Ministry of Higher Education Malaysia as the recipient of The Malaysia's Rising Star Award 2015. He was listed by the Thomson Reuters New York as The World Most Influential Scientific Minds 2014 and the country has selected him to be one of the recipients of Merdeka Award 2014. Due to his outstanding achievement in research, the Korea Invention News has awarded him with the World Inventor Award for two years in a row (2013 – 2014). In fact, Prof. Latif was bestowed the TWAS Prize in Engineering Sciences 2012 by The Academy of Sciences for the Developing World (based in Italy) and he was appointed as the Fellow of the Academy Sciences of Malaysia. In the same year, he was also received the Rotary Research Gold Medal Award, presented by the Rotary Club of Kuala Lumpur Di Raja. On top of that, the Academy of Science Malaysia has recognized him as one of the recipient of the Top Research Scientist of Malaysia (TRSM) for the year 2012. He was the sole Asian recipient of the Saudi Arabia Prince Sultan Bin Abdulaziz International Prize for Water in year 2006, besides being awarded the 20th Khwarizmi International Award from Iran. His active participation in scientific research has also been exhibited by being the recipient of multiple research grants in various disciplines sponsored by government and non-government bodies, with a cumulative value of more than RM 29.9 million. His capability in carrying out quality research work of international standard has been further supported by publication of more than 314 articles in high impact factor international refereed journals, with current cumulative citation number of 8394 and h-index of 44. As a tenacious educator, he showed dedication towards the supervision of postgraduate students, by successfully graduating 30 PhD and 60 master students. With his persevering attitude, he is veritably a source of inspiration to hundreds of his former students spread throughout the globe.

Associate Professor Atchara Purakom, Ph.D.

Kasetsart University Thailand



Curriculum Vitae

Assoc.Prof. Dr.Atchara Purakom

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Faculty of Education and Development Sciences, Kasetsart
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Education Background

2014 Post-doc research in Physical activity and Health in
aging

University of Porto, Portugal

2010 Ph.D. in Human and Social Development

Naresuan University, Thailand

1998 Master degree in Education (Health Promotion)
Chiang Mai University, Thailand

1991 Certificate in Tourism
Sukhothai Thamathiraj University, Thailand

1990 Bachelor science in Nursing
Budhachinnaraj Boromrajonani nursing college, Thailand

Professional experience

2006-now Professor in health education and health promotion

2009-2015 Deputy of head department of physical education and sports

2010-2015 Director of M.Ed. (Health promotion)

2010-2011 Project Manager in health promotion evaluation in National housing Authority project

2014-2015 Project Manager in Thailand active aging project supported by Thaihealth promotion
foundation

2015 Head researcher of report card project in western region, Thailand
(Physical activity for kid)

Research and publication

1. Atchara Purakom, Ajchareeya Kaisiyapat, Kasem Nakornkhet. 2015. Association between sedentary behavior and cardio-metabolic risk in Thai active older adults. Proceeding of ACPES 2015. Semarang University, Indonesia.
2. Purakom, A. 2014. Community-based Physical Activity Interventions to Promote Thai Older Adult's Health : A Systemic Review. Asian Confernece for Physical Education ans Sports Science 2014. 6-9July, Singapore.
3. Purakom, A., Nakornkhet, K, Tanoomsuk, T., Pupanead, S., Seabra, A. Carvalho, M.J. 2014.

6. Association between physical activity , functional fitness and mental fitness among Thai older adults, Nakornpathum, Thailand. AJESS, August 11(21).
7. Purakom, A., Carvalho, M.J., Tanoomsuk, T., Pupanead, S., Carrapatoso,S. 2013. Comparative
8. Study on Physical Activity in Ageing Population among Thai and Portugal Context. The 21st IUHPE
9. World Conference on Health Promotion, 25-29 August Pattaya, Thailand.
10. Purakom, A., Nakornkhet, K, Tanoomsuk, T., Pupanead, S., Carvalho, M.J. 2013. Association of
11. physical activity , functional fitness and mental fitness among older adults in Nakornpathum,
12. Thailand : A Pilot study, ISBNPA. May 22-25th, Ghent, Belgium.
13. Purakom, A. and Mahingsa, Y. 2012. Health promotion behavior in Bachelor students , Ksetsart University, Kamphaeng sane campus, , 10th annual conference in agricultural kamphaeng-sane. Nakornpathum.
14. Purakom, A. 2011. Capital Budgeting in sports and exercise for health promotion. Journal of Sports science and Health.. 13(3). September-December.
15. Purakom, A. 2010. Knowledge sharing network in youth in summer camp. Kasetsart Journal (Social science):30(1). January-April.

Personal Interests

1. Physical activity in older adults
2. School health Programe
3. Health Promotion in community
4. Tourism

Training and Comittee

1. Role of Education Assurance , Kasetsart University (2015-2016)
2. Measurement of Physical activity , early network career Webinar , ISPAH, 2016 (2016)
3. Committee of Asian Council of Physical Education and Sport (2015-2016)
4. Committee of National Physical activity conference (2015)

Gregor J. Sahler

International Business Administration Senior Advisor
Sparkassenstiftung für Internationale Kooperation, Germany



Work Experience

Since 12/2014 Saving Banks Foundation for International Cooperation (SBFIC)
Senior Advisor in Indonesia □ Advising ASBANDA, Bank Jateng and several other
BPDs on Micro Finance and Financial Literacy

09/2013 – 11/2014 German Development Institute (DIE), Bonn Professional
research project □ Research-based consultancy on the on-going fiscal
decentralization of property taxes in Indonesia as a mean of development finance

02/2012 – 08/2013 ProCredit Holding AG & Co. KGaA, Frankfurt am Main Employee in the
department Supervision & Capital Planning □ MSME financing in South America, Sub-Sahara Africa and
Eastern Europe □ Project implementation of Basel III regulations on group level, in Ghana and Romania

06/2011 – 09/2011 Fraport Saudi Arabia, Jeddah, Saudi Arabia Business Development King Abdulaziz
International Airport □ Consulting in the field of business development

06/2010 – 02/2011 NORDCAPITAL Portfolio Management GmbH & Cie. KG, Hamburg Portfolio
Management □ Analyzing and valuation of shipping investments that are traded on the secondary
market

07/2009 – 10/2009, Fraport AG, Frankfurt am Main 10/2008 – 02/2009 International Human
Resource Development □ Design and conducting of training in the field of intercultural competence

Education

10/2009 – 11/2011 Master of Arts – International Business Administration University of Hamburg Core
studies: International management, Finance Grade: Excellent (1.4)

10/2005 – 09/2008 Bachelor of Arts – International Cultural and Business Studies University of Passau
Core studies: Business administration, South-East Asian studies Grade: Very good (1.8)

08/2007 – 04/2008 Darmasiswa scholarship of the Indonesian government University of Indonesia,
Jakarta Core studies: Language and culture of Indonesia Month-long study excursion in Indonesia

08/2003 – 06/2005 Abitur – Georg-Christoph-Lichtenberg-Oberstufen-Gymnasium Bruchköbel Grade:
Excellent (1.4)

08/2002 – 06/2003 CETUSA scholarship Foothill High School, Henderson, NV, USA Grade: Excellent (1.0)

Personal Skills

Languages German – native speaker

English – fluent (written and spoken)
Indonesian – very good command (written and spoken)
Spanish – good command (written and spoken)

Computer skills

Excel – excellent skills
PowerPoint – excellent skills
Word – strong skills
Atlas TI – strong skills
Stata – basic skills

Recent soft skills trainings

Presentation and facilitation (3 days)
Team building and conflict management (2 days)
Professional writing (2 weeks)