

# MIAR

**3rd International  
Conference On**

**MULTIDISCIPLINARY INNOVATION  
IN ACADEMIC RESEARCH**

**July 27-28, 2017**

**Astana, Kazakhstan**

**Organised by:**



**GLOBAL ILLUMINATORS**

Researching and Developing for Humanity  
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3<sup>rd</sup> International Conference on “Multidisciplinary Innovation in Academic Research”(MIAR- July 27-28, 2017)

MIAR© 2017 Astana, Kazakhstan

Global Illuminators, Kuala Lumpur, Malaysia.



# **MIAR 2017**

## **Conference Proceeding**

### **Book of Abstracts**

**3<sup>rd</sup> International Conference on  
“Multidisciplinary Innovation in Academic Research”  
(MIAR- 2017)”**

**Venue: IBIS Astana Hotel Kazakhstan**

**Editor:**

**Dr. Ahmad Saddam Ph.D.**

Country Director (Global Illuminators Iraq)

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**Tariq Iqbal Khan (Ph.D.)**

*Director Global Operations (Global Illuminators)*

### **On Chee Hoong**

*Manager Operations (Global Illuminators)*

## Conference Chair Message

### Farooq Ahmed Jam (Ph.D.)



3<sup>rd</sup> International Conference on “Multidisciplinary Innovation In Academic Research” (MIAR - 2017) serves as platform that aims to help the scholarly community across nations to explore the critical role of multidisciplinary innovations for sustainability and growth of human societies. This conference provides opportunity to the academicians, practitioners, scientists, and scholars from across various disciplines to discuss avenues for interdisciplinary innovations and identify effective ways to address the regional and global challenges faced by our societies. The research ideas and studies that we received for this conference are very promising, unique, and impactful. I believe, these studies have the potential to address key challenges in various sub-domains of social sciences and applied sciences. The scholars attending this conference will certainly find it helpful in refining their own research ideas, finding solutions to basic/applied problems they face, and interacting with other renowned scholars for possible future collaborations.

I am really thankful to our honorable scientific and review committee for spending much of their time in reviewing the papers for this event, selecting the best paper awards, and helping the participants in publishing their research in affiliated journals. Also special thanks to all the session chairs from industry, academia, and policy-making institutions who volunteered their time and support to make this event a success

A very special thanks to the great scholars for being here with us as key note speakers. Their valuable thoughts will surely open the horizon of new research and practice for the conference participants coming from across the globe. I am also thankful to all the participants for being here with us to create an environment of knowledge sharing and learning. We the scholars of this world belong to the elite educated class of this society and we owe a lot to return to this society.

Let's break all the discriminating barriers and get free from all minor affiliations. Let's contribute even a little or single step for betterment of society and welfare of humanity to bring prosperity, peace, and harmony in this world. Stay blessed.

## **Type of MIAR Papers**

For this year, MIAR has two types of papers: *Empirical Studies* and *Insight*. Research papers meet the needs of researchers and are reviewed on the basis of highest academic standards. The objective of the academic paper is to contribute to the scientific body of knowledge. On the contrary, Insight papers meet the needs of policy makers and professionals and are reviewed on the basis of high practical standards. The objective of the Insight is to identify the real world problems and how they can be solved with the help of information systems.

## **Reviewing Criteria**

In MIAR, all papers are judged on the same criteria (relevance, significance, originality, validity, and clarity). However some criteria differ between the Research papers and Insight papers.

**Relevance:** Relevance has a great impact on the theme of the conference. The material is relevant and according to the theme of the conference.

**Significance:** Knowledge in different researches in the conference is related to research papers and insight papers.

**Originality:** Ideas that are new for the researchers are used in the conference.

**Validity:** Research papers in the conference are based on theory while the insight papers in the research are based on experimental researches. References are according to content.



**Clarity:** Papers are according to the format, language is easy and understandable by the audience in the conference.

### Acceptance Rates

Full Research Papers				
Submitted Papers	Accepted Papers	Withdrawn	Unqualified papers	Acceptance Rate
37	20	7	10	54.7%

### Copyright Agreement

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## **Acknowledgment**

A huge number of people helped in conducting the conference. First of all, thanks to all the members of the Conference and Program Committee and representatives of the MIAR board and their helpers. We also want to thank all the Track Chairs, and reviewers, as well as all the members of the Scientific Committee for their help in the review process and organizing the tracks and special sessions. A special thanks to Universitas Sembilanbelas November Indonesia for collaboration.

We thank everyone for their hard work and dedication to this conference and we look forward to the latest episode of the MIAR tradition.

Farooq Ahmed Jam (Ph.D.), Tariq Iqbal Khan (Ph.D.)  
Program Chair & Co-Chair

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*Ling Tung University, Taiwan*

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*Tehran University of Medical Sciences, Iran*

**Zhou Rui-Hua**

*School of Public Health, North China University Of Science And Technology*

## **Keynote Speaker**

### **Dr. Mingchang Wu,**



Dr. Mingchang Wu, Dean of School of Humanistic and Applied Science at National Yunlin University of Science and Technology, received his doctoral degree at Purdue University in 1995, majoring Vocational and Technical Education. His academic interests focus on Higher Education, Occupational Psychology and Sociology, and Educational Development and Quality Evaluation. Moreover, undertook a series of educational improvement projects at the positions of Chairperson of Graduate School of Vocational Education, Coordinator of Teaching Resource Center for 20 institutes in Central Taiwan, and CEO of Program Evaluation in Taiwan. Recently , HE is administering several research projects on the collaboration among universities for educational quality improvement and revitalization. Most importantly, he is looking for some international colleagues to conduct cross-cultural research.

## **MIAR 2017 Track’s Chairs**

### **Business Management, Economic Studies & Social Science & Humanities**

Godspower I. Onyenanu & Chien-Sheng Huang

### **Engineering & Technology Studies**

José Arménio Rego & Dengchuan Cai

## **Best Paper Nominee List**

### **A Survey Study on Imagination, Creativity, and Innovative Thinking of Undergraduate and Graduate Students in Taiwan**

*Dengchuan Cai<sup>1</sup>, Nyan-Myau Lyau<sup>2</sup>, Chuan-Yu Chang<sup>3</sup>, Sheng-Chun Huang<sup>4</sup>, Jia-Wei Jhang<sup>5</sup>*

<sup>1,2,3,4</sup>National Yunlin University of Science and Technology, Taiwan

### **Exchange Rate, Bank Loans Performance, And Monetary Policy In Kazakhstan**

*Gulnara Moldasheva*

KIMEP University, Kazakhstan

### **An Empirical Study on Hierarchical Approaches to Facilitate Creative Thinking of University Students in Taiwan**

*Mingchang Wu<sup>1</sup>, Wei-Jen Tan<sup>2</sup>, Chang Chuanyu<sup>3</sup>, Dr. Chung, Ruey-Gwo<sup>4</sup>, Shi-Chang Tseng<sup>5</sup>, Lin, Hsiuhsu<sup>6</sup>*

<sup>1,2,3</sup> Graduate School of Technological and Vocational Education, Taiwan

<sup>1, 4</sup>Husiping Unervisity of Science and Technology

<sup>5</sup>National Yunlin Unervisity of Science and Technology

<sup>6</sup>Chaoyang Unervisity of Technology

### **Evidence for Deeper Hydrocarbon Exploration: New Insight from the Hydrocarbon Plays in the North Celtic Sea Basin**

*Godspower I. Onyenanu*

Imperial College London, United Kingdom



## **Developing Trilingual Education in Universities of Kazakhstan**

*M.Zh. Tusupbekova<sup>1</sup>, M.A.Idrissova<sup>2</sup>,*

*B.G. Smagulova<sup>3</sup>, Zh.K. Nurmanova<sup>4</sup>, K.K. Kulanova<sup>5</sup>*

L.N. Gumilyov Eurasian National University,  
Kazakhstan

## **MIAR 2017 Best Paper Award Winner**

### **Developing Trilingual Education in Universities of Kazakhstan**

*M.Zh. Tusupbekova<sup>1</sup>, M.A.Idrissova<sup>2</sup>,*

*B.G. Smagulova<sup>3</sup>, Zh.K. Nurmanova<sup>4</sup>, K.K. Kulanova<sup>5</sup>*

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## **MIAR 2017 Conference Committee**

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### **Conference Co- Chair**

**Tariq Iqbal Khan (Ph.D.)**

*Director Global Operations (Global Illuminators)*

### **Editor**

Dr. Ahmad Saddam (Ph.D.)

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## **DAY 01 Thursday (July 27, 2017)**

### **Welcome Reception & Registration**

**8:15 am – 9:00 am**

**Opening Ceremony (09:00am – 10:00 am)**

**Venue: Room 1**

09:00 am – 9:15 am	Welcome Remarks –Dr. Madina Tussupbekova	Conference Coordinator MIAR 2017 Global illuminators
09:15 am – 9:25 am	Opening Speech – <b>Dr. Tariq Iqbal Khan (Ph.D.)</b>	Director Global Operations, Global Illuminators Conference Co-Chair
09:25 am – 9:35 am	Keynote Speech – <b>Dr. Mingchang Wu,</b>	Dean of School of Humanistic and Applied Science at National Yunlin University of Science and Technology, Taiwan
09:35 am - 10:00 am	Group Photo	

**Tea Break (10:00 am – 10:30 am)**

## **DAY 01 Thursday (July 27, 2017)**

### **Session 1 (10:30 am – 1:00 pm)**

**Venue: Room 1**

### **Session Chairs: Godspower I. Onyenanu & Chien-Sheng Huang**

#### **Track A: Business, Management, Economics Studies & Social Sciences**

MIAR-17-104	Do Gritty Leaders Inhibit Employees’ Improvisation Behaviors A Moderated Mediation Model	José Arménio Rego
MIAR-17-117	A Survey Study on Imagination, Creativity, And Innovative Thinking of Undergraduate and Graduate Students in Taiwan	Dengchuan Cai
MIAR-17-119	A Study on the Influential Paths and Hierarchic Structure of Constructive Factors for College Students’ Creative Thinking	Mingchang Wu, Shi-Chang Tseng
MIAR-17-120	Exchange Rate, Bank Loans Performance and Monetary Policy in Kazakhstan	Gulnara Moldasheva
MIAR-17-133	Developing Trilingual Education in Universities of Kazakhstan	Idrissova Mapruza, Smagulova Botagoz
MIAR-17-134	Implementation of the Official Language Policy and the Linguistic Reality in Astana, Kazakhstan	Tussupbekova Madina
MIAR-17-105	The Individual Experience of Competing Institutional Logics	José Arménio Rego

### **Lunch Break (1:00 pm – 2:00 pm)**

**DAY 01 Thursday (July 27, 2017)**

**Session 2 (02:00 pm – 03:30 pm)**

**Venue: Room 1**

**Session Chairs: José Arménio Rego & Dengchuan Cai**

**Track A: Engineering & Technology Studies**

MIAR-17-107	Potential of Feldspar Mortar as A Construction Material	Lee, Khil-Ha
MIAR-17-127	Evidence for Deeper Hydrocarbon Exploration: New Insight from the Hydrocarbon Plays in the North Celtic Sea Basin	Godspower I. Onyenanu
MIAR-17-128	A Study on Wave Power Generation System Utilization of Bell-Mouth Effect to Pairs of Water Chambers	Guk Hwan Sin
MIAR-17-137	A Novel Skin Moisture Detection Device Made by Indium Gallium Zinc Oxide (IGZO) Thin Film with Smart Color Reminding	Chien-Sheng Huang

**Closing Ceremony (03:30 pm – 04:00 pm)**

## **DAY 02, Friday (July 27, 2017)**

### **“CITY TOUR”**

Gathering of Participants at the Lobby of IBIS Astana Hotel  
Kazakhstan  
at 8:30 am

Departure: 9:00 am for City Tour

Drop at 12:00 pm in Restaurant for lunch

**Important Note:** This tour is organized by Global Illuminators and entry to this tour is free for all participants. You may also bring your Siblings/Family/Friends but you have to register for them on registration desk one day before the tour.



**Global Illuminators**

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## **TRACK A: BUSINESS MANAGEMENT & ECONOMIC STUDIES**





## Do Gritty Leaders Inhibit Employees' Improvisation Behaviors? A Moderated Mediation Model

**Arménio Rego<sup>1\*</sup>, Andreia Vitória<sup>2</sup>, Ana Ventura<sup>3</sup>, Miguel Pina e Cunha<sup>4</sup>**

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### Abstract

This paper aims to show (a) how leader's grit predicts employees' improvisational behavior through their resilience, (b) how leader's humility moderates the relationships between the leader's grit and employees' resilience, and (c) how perceived situational constraints moderate the relationship between employees' resilience and their improvisational behavior. The sample comprises of 153 individuals, who described (a) leader's grit and humility on T1, and (b) situational constraints, and their own resilience and improvisational behavior on T2 (one month later). The main findings are as follows: (a) a gritty leader reduces the employees' improvisational behavior through decreasing their resilience; (b) leader's humility moderates the relationship between the leader's grit and employees' resilience, the negative relationship being significantly weakened when the leader is humble; (c) the lowest level of resilience emerges when the leader is gritty and not humble; (d) employees' resilience relates positively with their improvisational behavior; (e) the relationship between employees' resilience and their improvisational behavior is moderated by the situational constraints, in that the highest level of improvisational behavior emerges when both resilience and constraints are high. The study suggests that although grit has been considered a strength for individuals' success, the negative effects being weakened when the leader is humble. We suggest that one relevant challenge is to identify moderators that make the relationship between the leader's grit and employees' resilience positive.

**Keywords:** Leader Grit; Leader Humility; Employee Resilience; Situational Constraints; Employee Improvisational Behaviour

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## Exchange Rate, Bank Loans Performance, and Monetary Policy in Kazakhstan

**Gulnara Moldasheva\***  
KIMEP University, Kazakhstan

### Abstract

The purpose of a national currency is to allow the central economic planners and bank managers a measure of control over the economic activity of the country and to provide an effective medium of exchange to promote domestic commerce and foreign trade. The Kazakhstan government has taken key steps to assure that the national currency, Kazakh tenge, is a tradable currency with adequate provisions for clearing and settlements among banking institutions. The National Bank of Kazakhstan (NBK) decided to let the tenge to free float in August 2015 as part of a shift to an inflation targeting regime. And, to improve the monetary policy in Kazakhstan, NBK decided to regulate the one-day repo rate, also known as the base rate, or as the monetary policy rate. The purpose of this paper is to analyze whether the exchange rate really depends on crude oil prices, exchange rate of Russian ruble, or it mainly depends on monetary policy rate. The sample of monthly data of 38 banks in Kazakhstan during 2013-2016 are used for analysis of the influence of base rate, oil prices, inflation rate, international reserves, and bank loans on the exchange rate of Kazakh tenge to American dollar. The empirical results of multiple regressions show that the base rate and cross exchange rate of Russian ruble significantly positively influence the exchange rate of Kazakh tenge, but the oil price and the amount of bank loans significantly negatively influence the exchange rate. The amount of international reserves, held in NBK, insignificantly positively influences the exchange rate of national currency.

**Keywords:** Exchange rate, Monetary policy, Refinancing rate, Bank performance, Non-performed loans

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## **TRACK B: SOCIAL SCIENCES & HUMANITIES**



## The Individual Experience of Competing Institutional Logics

Miguel Pina e Cunha,<sup>1</sup> Arménio Rego<sup>2\*</sup>

<sup>1</sup>Nova School of Business and Economics

<sup>2</sup>Católica Porto Business School

### Abstract

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The fact that many organizations incorporate competing institutional logics (i.e., belief systems) is now established in the organizational literature. Abundant research has been dedicated to the study of the dual constitutive core at the field and organizational levels but less attention has been paid to the micro-dimensions of the collision of competing logics, namely in terms of how individuals experience and navigate them and how that influences organizational ethos and strategy. We study how one individual, founder of independent music label 4AD, made sense and lived through the fundamental clash of two logics: “music as art” and “music as business”. We analyze how the personal struggles of the founder allowed the construction and maintenance of a strong, solid, and continued organizational identity for 4AD. We uncover four factors accounting for the protection of 4AD’s sustained artistic integrity in face of a transforming industry. These are: defining a preferential logic; building identity around the logic; community building around the logic, and expressing this identity via socio-materiality. The four factors helped to sustain balance and congruence in a dynamic fashion, which shifted and reorganized over time, without impairing consistency or threatening the artistic ethos.

**Keywords:** Institutional Logics, Music Vs. Business, Experience of Contradiction

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## A Survey Study on Imagination, Creativity, and Innovative Thinking of Undergraduate and Graduate Students in Taiwan

**Dengchuan Cai<sup>1</sup>, Nyan-Myau Lyau<sup>2</sup>, Chuan-Yu Chang<sup>3</sup>, Sheng-Chun Huang<sup>4</sup>, Jia-Wei Jhang<sup>5</sup>**

<sup>1,2,3,4,5</sup> National Yunlin University of Science and Technology, Taiwan

### Abstract

Imagination, creativity, and innovative thinking are very important capabilities for various industries. The design students will be the designers of industries in the near future. In order to plan a course to enhance students with those capabilities, it is necessary to get understanding of the state of the arts of those capabilities of the students. This study surveyed those capabilities of undergraduate and graduate design students in Taiwan. A questionnaire consisting of four aspects with 99 questions was used to survey the capabilities of students. Sixteen, twenty-nine, twenty-four, and twenty-nine, questions were designed for the imagination, creativity, innovative thinking, and work efficacy, respectively. Forty-five undergraduate students and twenty-seven graduate students in the department of industrial design were surveyed. The results illustrated that: 1) the overall score of the four capabilities of the graduate students was greater than that of the undergraduate students, 2) In the four aspects, the graduate students in the future imagination and work efficacy were better than the undergraduate students, however, the affective creativity and innovative thinking were not different, 3) The graduate students were better than the undergraduate students in seven of the ten second aspects; among them were curiosity, imagination, originality, persistence, situation construction, work attitude, and work vision. Whereas, in the other three second aspects were not different, among them are adventure, obey, and over the fact, and 4) the graduate students were better than the undergraduate students in 15 questions of the total 99 questions. The results can be a reference for design education and research.

**Keywords:** Imagination, Creativity, Innovative thinking, Work efficacy, Design

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## A Study on the Influential Paths and Hierarchic Structure of Constructive Factors for College Students' Creative Thinking

**Mingchang Wu<sup>1</sup>, Wei-Jen Tan<sup>2</sup>, Chang Chuanyu<sup>3</sup>  
Chung, Ruey-Gwo<sup>4</sup>, Shi-Chang Tseng<sup>5</sup>, Lin, Hsiuhsu<sup>6</sup>**

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<sup>4</sup> Hsiping Unersivity of Science and Technology, Taiwan

<sup>6</sup> Chaoyang Unersivity of Technology, Taiwan

### Abstract

Creativity is always regarded as the core competence of human development and the core value for higher education. It conceptually includes creative capabilities, affective creativity, and imagination for the future. People with creativities usually tend to possess unique thinking styles and work attitude. Curiosity then comes to researchers that if there is any relationship among these seemingly the same but different conceptual constructs. This empirical study, taking statistical tests, purported to identify the structural relationship among these constructs through a series of statistical analyses, such as t-test, one-way analysis of variance, and SEM confirmatory analysis. This understanding may facilitate youngsters' creativity through university curricula. The study found that Taiwanese students in universities of science and technology performed a competent level of creativity. Their work attitude plays the mediating role to cultivate youngsters' creativity at workplace. In addition, it indicated that the improvement of creativity multifactorially results from affective creativity, creative thinking, and future imagination. At a workplace, people's creativity is initiated by their affective creativity, which raises a creative thinking, and eventually built into imagination with hierarchical and systematic processes. Finally, this study further suggested future research to employ more students' empirical data for more in-depth analyses, as well as extend the investigating aspects and forecasting factors, such as personality trait and environment atmosphere, to further realize a broader spectrum of affective creativity education for university students and future employers.

**Keywords:** Creativity, Affective Creativity, Creative Thinking, Future Imagination, Work Attitude

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## Developing Trilingual Education in Universities of Kazakhstan

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Zh.K. Nurmanova<sup>4</sup>, K.K. Kulanova<sup>5</sup>**

<sup>1,2,3,4,5</sup> L.N. Gumilyov Eurasian National University, Kazakhstan

### Abstract

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Kazakhstan is officially a trilingual country, with Kazakh, Russian, and English as its official languages. The status of these languages was proclaimed in October 2006 at the Twelfth Congress of the Assembly of Nations of Kazakhstan, where the President of the Republic of Kazakhstan N. Nazarbayev said that the knowledge of three languages was very important for the future of the next generation. Most universities in Kazakhstan are appropriately placed within a bilingual category, with Kazakh and Russian as general working languages. The main purpose of this project is to stress not only the importance of Kazakh-Russian bilingualism, but also the need of learning and teaching English. Kazakh, Russian, and English are to be used in scientific publications, in university guides, in names for faculties, and on web sites. According to data offered by the Ministry of Education and Science, universities of Kazakhstan have expanded their multilingual groups since 2008 (with 360,000, or 1.4%, of students studying in multilingual groups today, while 8.3% of teachers speak English). New subjects such as “Professional Kazakh (Russian) Language” and “Professional Foreign Language” were introduced in the educational curricula of universities. Additionally, universities are implementing tiered models of learning English in accordance with international standards. Universities have implemented plans to pass institutional and specialized accreditation in three languages. Most of the basic educational books at universities are now translated into Kazakh, Russian, and English. This paper discusses the development of trilingual education in Kazakhstan and the impact this language policy has had on the nation’s universities. Focus group discussions with students and staff are analyzed to measure the participants’ desires to use three languages.

**Keywords:** Learning, English, Kazakh, Russian, Trilingual Education, University

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## Implementation of the Official Language Policy and the Linguistic Reality in Astana, Kazakhstan

**Tussupbekova Madina<sup>1</sup>, Zharkynbekova Sholpan<sup>2</sup>,  
Abdualiuly Bekzhan<sup>3</sup>, Konyratbayeva Zhanar<sup>4</sup>, Kulmanov Kuandyk<sup>5</sup>**  
<sup>1,2,3,4,5</sup>L.N. Gumilyov Eurasian National University, Kazakhstan, Astana

### Abstract

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Astana is a culturally developing young capital of Kazakhstan. Various ethnic communities as Kazakhs, Russians, Ukrainians, Tatars, Armenians, Azerbaijanis, Jews, Belarusians, Georgians, Moldovans, Tajiks, Uzbeks, and others live in Kazakhstan. Many languages function and coexist. The city can rightly be called multi-ethnic because its community is heterogeneous. Despite the peculiar ethnic composition and linguistic configuration, the study of functioning language policy in Kazakhstan has been limitedly researched. The purpose of the study is to examine the linguistic landscape of Astana city to the current language policy and linguistic reality. In other words, by examining the linguistic landscape, the research aims at exploring the implementation of the current language policy in Astana and functioning of Kazakh, Russian, and English languages displayed on the public road signs, advertising billboards, street names, place names, commercial shop signs, and public signs on government buildings.

**Keywords:** Commercial Signs, Language Policy, Language Vitality, Linguistic Landscape, Linguistic Reality, Top and Bottom-Up Items

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## **TRACK C: ENGINEERING & TECHNOLOGY STUDIES**



## Potential of Feldspar Mortar as a Construction Material

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<sup>1,2,3</sup> GI Co Ltd

<sup>4</sup>Daegu University, Korea South

### Abstract

Feldspar is highly absorptive for noxious substances. Feldspar has high thermal conductance since it has high porosity and large surface area as weathering process goes by. These characteristics suggest that Feldspar could be a good building material. A cubic sample of lightweight feldspar mortar was made in order to examine the characteristics of feldspar. The same cubic sample was made with the widely used Portland cement for relative comparison. Then hot water pipes were installed inside both the samples (feldspar mortar and Portland cement), and variation of temperature in time was observed. The results show that the gap in temperature is 1 oC after 30 min, 1.6 oC after 1 hour, and 3.3 oC after 3 hours. It is generally found that feldspar mortar shows high capability for thermal conductance. Second experiment was performed against copper and lead, in order to examine the absorption. There is a suggestion that the capability of absorption for feldspar mortar is much higher. The Portland cement has 30% absorption in concentration after 1 hour reaction, while the feldspar mortar has 85% (99%) absorption in concentration after 1 (10) minute reaction. The lightweight feldspar mortar has high potential for building and construction materials in that it has high absorption and thermal conductance.

**Keywords:** Material, Thermal conduction, Adsorption, Feldspar

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## Evidence for Deeper Hydrocarbon Exploration: New Insight From the Hydrocarbon Plays in the North Celtic Sea Basin

**Godspower I. Onyenanu\***

Imperial College London, United Kingdom

### Abstract

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Results from a series of basin models have important implications for the timing of hydrocarbon maturation, charge history and trap formation, sealing potential, remigration, and phase change. The model provides more accurate results than previous studies, which were based on general studies and 1D modelling. The model was constructed using 2D seismic data, wireline logs, and geochemical data from wells. Palaeothermal values and vitrinite reflectance data were used to calibrate the models to present day heat flow of 52mW/m<sup>2</sup>. Results from these studies show that hydrocarbon maturation, generation, and migration were affected by the Triassic and Late Jurassic rifting phases, resulting in a complex charge history and potential trap modification through time. The Late Jurassic source rocks (Purbeck) attained peak maturation for oil in late Cretaceous while the Early Jurassic Source rocks (Liassic and Toarcian) entered the gas window in Early Cretaceous. Two expulsion phases (Late Jurassic and Early Cretaceous) of hydrocarbon were observed for the deepest source rocks. Analysis of the petroleum systems for deeper prospect suggests that there is potential for charge of suitable reservoir facies where they exist and the reservoir quality can be preserved. Hydrocarbon preservation risk is low for anticlinal structures but there is potentially high risk of remigration along modified fault planes in fault-dependent structures.

**Keywords:** North Celtic Sea Basin, 1D & 2D Basin Models, Migration, Expulsion Onset And Phase Change

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Email: [g.onyenanu14@imperial.ac.uk](mailto:g.onyenanu14@imperial.ac.uk)



## A Study on Wave Power Generation System Utilization of Bell-Mouth Effect on Pairs of Water Chambers

Seong Beom Lee<sup>1</sup>, Kesayoshi Hadano<sup>2</sup>, Guk Hwan Sin<sup>3</sup>, Byung  
Young Moon<sup>4\*</sup>

<sup>1,3,4</sup> Kunsan National University of Naval Architecture, Korea

<sup>2</sup>Yamasguchi University of Ocean Engineering, Japan

### Abstrac

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The following research suggests a novel wave power generation system for ocean energy. A system has to satisfy all four durability, constructability, efficiency in economy, and power conversion to a certain extent for it to be put into practical use. These four conditions are met by having a water chamber installed in a series on a breakwater, and rotating the hydraulic turbine with the difference in water level from the forward and reverse directions of the Bell-Mouth effect. The water transportation model had been designed and put into numerical analysis. According to the analysis, the output power is highest when the wave height is large, the wave cycle short, and the water depth deep. The results are to be used later on as reference data to express the change in water level and flux inside the water chamber without inconsistency.

**Keywords:** Hydraulic Turbine, Water Chamber, Numerical Analysis, Wave Power Generation

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Email: moonby20@hanmail.net



## A Novel Skin Moisture Detection Device Made by Indium Gallium Zinc Oxide (IGZO) Thin Film with Smart Color Reminding

**Chien-Sheng Huang<sup>1\*</sup>, Shi-Wei Luo<sup>2</sup>, Chih-Chieh Yang<sup>3</sup>**

<sup>1,2,3</sup> National Yunlin University of Science and Technology, Taiwan

### Abstract

As the progress of technology, the skin moisture can be detected, which is usually showed by relative humidity. However, the reminding of moisture content supply is more important for a consumer, such as informing for facial moisturizer, or adding water for athlete replenishing moisture. In this study, a novel architecture is proposed to reach the purpose of reminding for supplementing moisture. First, a thin film sensitive to the moisture is made by Indium Gallium Zinc Oxide. A pair of novel digitated electrodes on the film measures the various values of resistivity which responds to the different relative humidity values. Secondly, a smart algorithm is established and calibrated into the circuit, which receives the signal measured by the film and will make a decision whether to activate the reminding process. Finally, the reminding signals consist of a combo red and blue light. The red is for the reminding of replenishing moisture, and the blue just for indicating so far ok. The prototype of this device is justified, and the miniature is in progress.

**Keywords:** IGZO, Skin moisture

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## **FUTURE EVENTS**

### **3rd INTERNATIONAL CONFERENCE ON**

**“Multidisciplinary Academic Research & Global Innovation ”  
(MARGI -2017)**



**Date:** August 25-26, 2017

**Venue:** Holiday Inn Central Plaza Beijing

**Email:** [margi@globalilluminators.org](mailto:margi@globalilluminators.org)

**Abstract Submission Date:** August 05, 2017

**Full Paper Submission Date:** August 10, 2017

**Selected conference papers will be published in special /regular issue of ISI/Scopus indexed journals associated with this conference.**

#### **Conference Main Tracks**

- Business, Management and Economic Studies
- Health and Medicine Studies
- Engineering & Technology Studies
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- Physical Life and Applied Sciences
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## 4TH INTERNATIONAL CONFERENCE ON

“Innovative Trends In Multidisciplinary Academic Research”  
(ITMAR-2017)



**Date:** October 20-21, 2017

**Venue:** Istanbul Gonen Hotel, Istanbul, Turkey

**Email:** [itmar@globalilluminators.org](mailto:itmar@globalilluminators.org)

**Abstract Submission Date:** September 20, 2017

**Full Paper Submission Date:** September 25, 2017

**Selected conference papers will be published in special /regular issue of ISI/Scopus indexed journals associated with this conference.**

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**“Regional Challenges To Multidisciplinary Innovation ”  
(RCMI- 2017)”**



**Date:** October 05-06, 2017

**Venue:** Radisson Blu Hotel, Nairobi kenya

**Email:** rcmi@globalilluminators.org

**Abstract Submission Date:** September 10, 2017

**Full Paper Submission Date:** September 15, 2017

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(IARI - 2017)



**Date:** November 23-24 2017

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**Email:** [iari@globalilluminators.org](mailto:iari@globalilluminators.org)

**Abstract Submission Date:** October 5, 2017

**Full Paper Submission Date:** October 10, 2017

**Selected conference papers will be published in special /regular issue of ISI/Scopus indexed journals associated with this conference.**

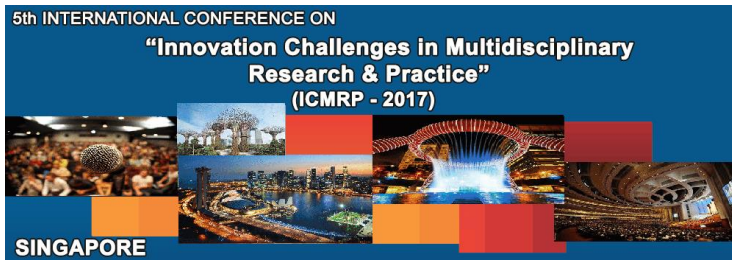
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## 5TH INTERNATIONAL CONFERENCE ON

“Innovation Challenges In Multidisciplinary Research & Practice” (ICMRP - 2017)



**Date:** December 15-16, 2017

**Venue:** Hotel Grand Pacific Singapore

**Email:** [icmrp@globalilluminators.org](mailto:icmrp@globalilluminators.org)

**Abstract Submission Date:** November 25, 2017

**Full Paper Submission Date:** November 30, 2017

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“Global Issues In Multidisciplinary Academic Research”  
(GIMAR - 2018)



**Date:** February 01-02, 2018

**Venue:** TKP Conference Center, Ichigaya, Tokyo, Japan

**Email:** [gimar@globalilluminators.org](mailto:gimar@globalilluminators.org)

**Abstract Submission Date:** November 25, 2017

**Full Paper Submission Date:** November 30, 2017

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## 5TH INTERNATIONAL CONFERENCE ON

“Trends In Multidisciplinary Business & Economic Research” (TMBER - 2018)



**Date:** March 25-26, 2018

**Venue:** Rydges Camperdown, Sydney Australia

**Email:** [tmber@globalilluminators.org](mailto:tmber@globalilluminators.org)

**Abstract Submission Date:** December 25, 2017

**Full Paper Submission Date:** December 30, 2017

**Selected conference papers will be published in special /regular issue of ISI/Scopus indexed journals associated with this conference.**

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“Multidisciplinary Innovation In Business Engineering  
Science & Technology” (MI-BEST - 2018)



**Date:** April 05-06, 2018

**Venue:** Holiday Inn Bangkok Silom, Bangkok Thailand

**Email:** mibest@globalilluminators.org

**Abstract Submission Date:** January 25, 2018

**Full Paper Submission Date:** January 30, 2018

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/regular issue of ISI/Scopus indexed journals associated  
with this conference.**

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**Date:** April 20-21, 2018

**Venue:** Ai Pini Park Hotel Via Miranese 176, Venice Mestre, Italy

**Email:** [gtar@globalilluminators.org](mailto:gtar@globalilluminators.org)

**Abstract Submission Date:** February 20, 2018

**Full Paper Submission Date:** February 25, 2018

**Selected conference papers will be published in special /regular issue of ISI/Scopus indexed journals associated with this conference.**

### Conference Main Tracks

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- Engineering & Technology Studies
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“New Directions In Multidisciplinary Research and Practice”  
(NDMRP - 2018)



**Date:** May 12-13, 2018

**Venue:** Astor hotel, Athens, Greece

**Email:** ndmrp@globalilluminators.org

**Abstract Submission Date:** March 10, 2018

**Full Paper Submission Date:** March 15, 2018

**Selected conference papers will be published in special /regular issue of ISI/Scopus indexed journals associated with this conference.**

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- Engineering & Technology Studies
- Social Sciences & Humanities
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# CSR



Environment

Charities

Public Health



Growth and  
Development

Sustainability



## **CSR Activity Conducted By Global Illuminators: Sport Activation for Children against Negative Impact of Internet & Technology**

In April 2016, Global Illuminators conducted Corporate Social Responsibility program together with Maestro and the Clover as Sport Facility Provider in Bandung, initiating an event with theme:



### **The Objectives of this event were:**

1. Media of education for parents and children to be aware of digital new era and its impact on children's life
2. Facilitate and promote futsal as one of the kinds of sports activation that can be alternative activity for children against the negative impact of internet
3. Social activity and charity engaging orphans to enjoy sports activities together with their friends
4. Corporate Social Responsibility of Company to contribute to the society especially to solve one of the social problems in Bandung.

Highlights of CSR Activities are given below:



## **Global Illuminators Malaysia Team conducted its Latest CSR activity at Rumah Charis, Kuala Lumpur, Malaysia Children Home**

Global Illuminators Malaysia Team conducted its latest CSR activity at Rumah Charis, Kuala Lumpur, Malaysia Children home. The children home ministry provides care for orphans and single parent children, their homes and activities aim to create a suitable environment to enable children to grow. They help to provide spiritual direction, education, and counselling for the children. Emphasis was given to fellowshiping and spending time with the children over refreshments, as well as presenting them with small gifts and the organizing of special entertainment programmes for the children such as a special game segment. One of the other highlights of the evening was the goodie bags distribution programme carried out by Global Illuminators.



## **Global Illuminators Indonesian Team conducted its Latest CSR activity in Ramadan for Local Community Welfare, Sharing Happiness and developing Orphan Children**

Global Illuminators Indonesian team conducted its latest CSR activity in Ramadan for orphans. The purpose of this activity was to give happiness and develop orphans with the support of more than 60 volunteers and distribute iftar to more than 400 beneficiaries (yateem, orphan and dhuafa). Global Illuminators Indonesian team spent time with children and conducted different activities for their moral self-development.

Highlights of this activity are given below:







# Mission

"Our mission is to persistently nurture the values to promote the human rights, institutional and academic development through quality research contributions. Our unique human capital with constructive attitude is committed to bring change in all spheres of life by using innovative research and intellectual skills. We are here to research and promote the development, prosperity and transparency across the globe without any discrimination".

# Vision

Organized by:

"Researching and Developing for Humanity"



## 3rd International Conference on "MULTIDISCIPLINARY INNOVATION IN ACADEMIC RESEARCH"

MIAR 2017

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