

# **PROCEEDING OF THE 4<sup>th</sup> INTERNATIONAL WORKSHOP ON UI GREENMETRIC WORLD UNIVERSITY RANKINGS (IWGM) 2018**

**Universities, Impacts and Sustainable Development Goals (SDGs)**

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# Preface

This proceeding contains invited papers from the International Workshop on UI GreenMetric (IWGM) 2018. This 4<sup>th</sup> International Workshop on UI GreenMetric is organized by the Universitas Diponegoro, Semarang, Indonesia. The first and second IWGM were held at University of Indonesia in November 2013 and April 2016, respectively and the 3<sup>rd</sup> IWGM was the first event to be conducted outside Indonesia in April 2017.

The workshop is an academic forum for Rectors, Vice Rectors, and Director of Sustainability and Facilities, of UI GreenMetric participants. These universities have shown a lot of development in achieving best positions in each category at the UI GreenMetric Rankings.

In this workshop university leaders share experience and effort in improving sustainable environment in their respective campuses. This forum aimed at providing an opportunity for the top leaders of participating universities to explain their university's excellence in sustainability and Green Campus. We hope that this event will provide an opportunity for developing network and collaboration on sustainability management among global university. We also hope that this workshop will be a medium in which we can hear and accommodate some feedbacks or comments from the participants to improve our questionnaire to evaluate university performance. This year there were 40 invited speakers from 25 countries, which shares their best practices in respective universities. Moreover, this event was attended by Prof. H. Mohamad Nasir, Ph.D., Ak., Minister of Research, Technology and Higher Education, Republic of Indonesia, Dr. Agus Justianto, Head of Research, Development, and Inovation of Ministry of Environment and Forestry, Republic of Indonesia, and Prof. Jatna Supriatna, Chairman of Research Center for Climate Change (RCCC), Universitas Indonesia, Indonesia

We convey our greatest appreciation to all distinguished speakers from Universitas Diponegoro - Indonesia, Universidade do Minho – Portugal, University of Sao Paulo (USP) - Brazil, Universiti Putra Malaysia – Malaysia, North Carolina Agricultural & Technical State University – USA, Universiti Teknologi Malaysia (UTM) – Malaysia, Minin University – Russia, Chaoyang University of Technology – Taiwan, University of Bologna – Italy, University of Bahrain – Bahrain, Siam University – Thailand, Institut Teknologi Sepuluh Nopember (ITS) – Indonesia, Universidade Federal de Lavras – Brazil, National Chi Nan University – Taiwan, Bogor Agricultural University – Indonesia, Universitas Negeri Semarang – Indonesia, University of Limerick – Ireland, Universitas Padjadjaran – Indonesia, Universitas Sebelas Maret - Indonesia, Shandong Normal University - Lishan College – China, University of Kashan - Iran, Chulalongkorn University - Thailand, University of Szeged – Hungary, Universiti Malaysia Sabah – Malaysia, University of Milano-Bicocca – Italy, Ton Duc Thang University – Vietnam, Universidad Autonoma de Occidente – Colombia, Ozyegin University – Turkey, Pontificia Universidad Javeriana – Colombia, National University of Colombia – Colombia, National Pingtung University of Science and Technology – Taiwan, Tra Vinh University – Vietnam, Dublin City University – Ireland, University of Malaya – Malaysia, Peoples' Friendship University of Russia (RUDN) – Russia, Universiti Tun Hussein Onn Malaysia – Malaysia, Riga Technical University – Latvia, and University of Zanjan – Iran. We thank the conference proceeding contributor for their papers. This conference has attracted active participation from many high rank officials from many universities. In total, we have participants from 73 universities of 22 countries, in which we have Indonesia, Malaysia, Bahrain, Portugal, Hungary, Taiwan, Italy, China, USA, Vietnam, Colombia, Thailand, Iran, Turkey, Kazakh, Russia, Brazil, Latvia, Ireland, France, Pakistan and Russia on the list. This large number of participants indicated that ranking has been widely acknowledge a great tool for improving standard of university infrastructure management. We thank all participants and all stakeholders for making this International Workshop on UI GreenMetric 2018 a fruitful and memorable event.

Editorial Team

Riri Fitri Sari  
Hady Hadiyanto  
Nyoman Suwartha

# The 4<sup>th</sup> International Workshop on UI GreenMetric (IWGM) World University Rankings

Universitas Diponegoro, Semarang, Indonesia, 8-10 April 2018

## Rector's Welcome



**Prof. Dr. Ir. Muhammad Anis. M. Met**  
**Rector of Universitas Indonesia**

Dear Rectors, Vice President, University Leaders, Campus Sustainability Officers and all of the participants. Welcome to the International Workshop on UI GreenMetric 2018. This is the 4<sup>th</sup> workshop on UI GreenMetric after a successful event in 2017.

This is the highlight of all the national workshop conducted worldwide during our world tour in 2016-2017. In 2016, the national workshops of UI GreenMetric have been held by RUDN University, (Moscow – Russia), Bulent Ecevit University, (Zonguldak – Turkey), and Jordan University of Science and Technology, (Irbid – Jordan). Last year in 2017, the national workshops of UI GreenMetric have been held by Kazakh National Agrarian University, (Almaty – Kazakhstan), El Bosque University, (Bogotá – Colombia), University of Sao Paulo (USP), (Sao Paulo – Brazil), Diponegoro University, (Semarang – Indonesia), National Cheng Kung University (NCKU), (Nantau – Taiwan), University of Bologna, (Bologna – Italy), Aalborg University, (Aalborg – Denmark), Chulalongkorn University, (Bangkok – Thailand), RUDN University, (Moscow – Russia). We thank to host and national coordinator that has been generously committed to lead the UI GreenMetric movement in their country.

We are honoured to welcome all distinguished Rectors, Vice-Rectors, Director of Facilities and Sustainability from 25 countries in this event. We are proud to receive many positive feedbacks from many university leaders worldwide, which show that after 8 years from its initiation UI GreenMetric has become a knowledge hub. Our workshop has also become an experience sharing event in which we can learn from each other in implementing sustainable campus infrastructure.

I am pleased to see the strength of the participation here, in which we receive many prompt and direct responses from our colleagues overseas which share the same goals and priorities. This is a proof that the issue of sustainability has gained the attention of academics worldwide. We hope that Universitas Indonesia's initiative to draw attention to the sustainability issues through ranking will bring about direct changes in society. We look forward to the presentations and discussions on the issue of campus greening. I wish you all a constructive and productive time during the conference and hope your stay is enjoyable.

Semarang, 8 April 2018  
Best wishes

Prof. Dr. Ir. Muhammad Anis, M.Met  
Rector of Universitas Indonesia

# **The 4<sup>th</sup> International Workshop on UI GreenMetric (IWGM) World University Rankings**

Universitas Diponegoro, Semarang, Indonesia, 8-10 April 2018

## **Rector's Welcome**



**Prof. Dr. Yos Johan Utama, S.H., M.Hum.  
Rector of Universitas Diponegoro**

We warmly welcome you to the 4<sup>th</sup> International Workshop on UI GreenMetric World University Rankings (IWGM 2018). This event is hosted by Universitas Diponegoro, one of the prestigious universities in Indonesia and the greatest University in Central Java Province. Universitas Diponegoro is currently ranked at 6<sup>th</sup> of national universities based on Ministry of Research, Technology and Higher Education and QS WUR.

Universitas Diponegoro is very much supporting UI GreenMetric movement which draws attention to sustainability and environment in higher education institutions in the world and supposed to come up with solutions to significant worldwide problems by means of research. The aim of this symposium is to provide an opportunity for universities that get top position in UI GreenMetric to explain and to share their university's excellence in UI GreenMetric and also to provide an opportunity for cooperation in sustainability management in campuses. They will share their efforts in improving the sustainable environment on their campuses. The conference program is comprised of keynote talks, invited speakers talks, and discussion among universities.

As the Rector of Universitas Diponegoro and National Coordinator of UI GreenMetric in Indonesia, I am pleased to welcome you at the International Workshop on UI GreenMetric 2018 to be held on 8-10 April in Semarang.

Semarang, 8 April 2018  
Kind regards,

Prof. Dr. Yos Johan Utama, S.H., M.Hum.  
Rector of Universitas Diponegoro

# A Glimpse of UI GreenMetric Rankings & Connecting Dreams to the Future and the Past



**Prof. Dr. Ir. Riri Fitri Sari, MM., MSc,  
Chairperson of UI GreenMetric  
(Chairperson of the IWGM 2018 Organizing Committee)**

Dear University leaders, Welcome to the 4<sup>th</sup> International Workshop on UI GreenMetric 2018. This marks the end of the 8th year since we started our university ranking. We would like to thank our host, Universitas Diponegoro for showing the hospitality and culture of central Java to our newly emerging network of green universities. This annual event takes place in the heart of Universitas Diponegoro (UNDIP), Semarang, Indonesia. Diponego is the name of an Indonesian hero from the Java war of 1825–1830 an inspiration of many Indonesia. We hope that this year we can witness many heroes of our time; those university leaders who have work night and day to make their universities beautiful and green. The aim of this conference is to provide an opportunity for UI GreenMetric participants to show their university's excellence in UI GreenMetric and also to provide an opportunity for cooperation in sustainable campus management. In this International Workshop, participating universities leaders will share their achievement in leading sustainability and conservation programs in their campuses. We are very proud to receive many warm and encouraging responses from many university Rectors/Presidents/Vice Chancellors from more than 25 countries. The spirit of UI GreenMetric networks has echoed worldwide. We are delighted with the response of many universities to make a good use of ranking for the next level of their achievement. Last year, UI GreenMetric becomes hub that connects many universities to share their aspirations for a better world in which Sustainable Development Goals are on the making.

We thank Rectors and high rank university officers from 25 countries who are willing to share their experience and efforts in improving sustainable environment in their campuses. The conference program is comprised of keynote talks, plenary talks, and Panel talks. We hope that this event will be the discussion ground among many universities. This program book includes abstract paper contributions from the speaker of IWGM 2018 which consists of 44 articles. It covers the 6 indicators used in UI GreenMetric, i.e. Setting and Infrastructure, Energy and Climate Change, Waste Management, Water Management, Transportation and Education.

We would like to thank the International Ranking Expert Group (IREG), under President Jan Sadlak for their support, although due to the time restriction no representative from IREG could come to this workshop. We thank the Minister of Research Technology and Higher Education of Republic of Indonesia, Prof. M. Nasir and Representative of the Minister of Environment and Forestry of Republic of Indonesia, Dr. Agus Justianto for the Indonesian government support to the UI GreenMetric as one of 20 university rankings in IREG inventory. We would like to thank our host and speakers for their contribution to this workshop and the proceeding.

We also thank all workshop participants for their active participation to the theme of our event "Universities, impacts and SDGs" in the workshop. Enjoy your visit to Semarang and Universitas Diponegoro campus, as well as our amazing Borobudur temple, one of the wonders of the world. We wish you a fruitful workshop and newly refreshed motivation to create the next generation of sustainable campus.

Semarang, 8 April 2018  
Kind regards,  
Prof. Riri Fitri Sari  
Chairperson of UI GreenMetric

# Program Committee

## Advisors



Prof. Dr. Ir. Muhammad Anis, M.Met.  
Rector of Universitas Indonesia



Prof. Dr. Yos Johan Utama, S.H., M.Hum.  
Rector of Diponegoro University



Prof. Dr. Ir. Ambariyanto, MSc.  
Vice Rector of Diponegoro University



Prof. Dr. Ir. Tommy Ilyas, M.Eng.  
Universitas Indonesia (Expert Member of UI GreenMetric)

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Prof. Ir. Riri Fitri Sari MM.,  
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Chairperson of UI GreenMetric



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MAgr.  
Secretary of UI GreenMetric



Prof. Gunawan Tjahjono  
Expert Member of UI  
GreenMetric



Junaidi S.S., M.A  
Expert Member of UI  
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**Member 2:**  
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MKes (Safety and  
Health)

# UI GreenMetric World University Rankings: Background of the Ranking

## 1 Initiation of the Ranking

The UI GreenMetric World University Ranking is an initiative of Universitas Indonesia which is being launched in 2010. Prof. Gumilar Rusliwa Soemantri Stated that it is a part of strategy of raising its international standing. The University hosted an International Conference on World University Rankings on 16 April 2009. It invited a number of experts on world university rankings such as Isidro Aguillo (Webometrics), Angela Yung-Chi Hou (HEEACT), and Alex Usher (Educational Policy Canada). It was clear from the discussions that current criteria being used to rank universities were not giving credit to those that were making efforts to reduce their carbon footprint and thus help combat global climate change.

## 2 Aim of the Ranking

The aim of this ranking is to provide the result of online survey regarding the current condition and policies related to Green Campus and Sustainability in the Universities all over the world. It is expected that by drawing the attention of university leaders and stake holders, more attention will be given to combating global climate change, energy and water conservation, waste recycling, and green transportation. We hope that the ranking will be useful to university leaders in their efforts to put in place eco-friendly policies and manage behavioral change among the academic community at their respective institutions.

## 3 Creating the ranking

Universities that wish to participate are asked to provide numeric data on a number of criteria that can give a picture of their commitment to the greening of their campus and putting in place environmentally friendly policies that support sustainability. The criteria include such baseline information as the size of the university, both spatially and in terms of population, the campus location and the amount of green space; and also information on energy use, transport, water use and recycling and waste treatment. In addition, it will ask about efforts being made by the institution towards establishing green policies and management.

## 4 Methodology Used to Create the Rankings

### 4.1 The philosophy behind the rankings

We based our instrument on a broad philosophy that encompasses the three Es: Environment, Economics and Equity.

### 4.2 The criteria

We selected criteria that are generally thought to be of importance by universities concerned with sustainability. These include the collection of a basic profile of the size of the university and its zoning profile, whether urban, suburban, rural. Beyond this we want to see the degree of green space. The next category of information concerns electricity consumption because of its link to our carbon footprint. Then we want to know about transport, water usage, waste management and so on. Beyond these indicators, we want to get a picture about how the university is responding to or dealing with the issue of sustainability through policies, actions, and communication. In the first version of the methodology, used in 2010, 23 indicators were used within the five categories to calculate the ranking scores. In 2011, 34 indicators were used. Then in 2012 we leave the indicator of “smoke free and drug free campus environment” and used 33 indicators to evaluate the green campus. In 2012, we also categorize the indicators into 6 category including education criteria. One change being considered is the formation of a new category for sustainability education and research. In 2015 the theme was carbon footprint. We add two questions related this issue in the energy and climate change section. We also improved our methodology by adding a few sub-indicators that related to water and transportation in the 2015 ranking. A major change in methodology was done in 2016 by considering new trends in sustainability issues.



### 4.3 The scoring

Scoring for each item will be numeric so that our data can be processed statistically. Scores will be simple counts of things, or responses on a scale of some sort.

### 4.4 The weighting of criteria

Each of the criteria will be categorized in a general class of information and when we process the results, the raw scores will be weighted to give a final calculation. The weighting Criteria can be found in figure 1.

### 4.5 Refining and improving the research instrument

While we have put every effort into the design and implementation of the questionnaire, we realize that this seventh year-round is bound to have shortcomings. Therefore, we will be reviewing the criteria and the weightings continuously to reflect input from participants and state of the art developments in the field. We welcome your comments and input.

### 4.6 Data collection

Data will be collected through online system between June-October of the year, from the universities we have contacted and who are willing to provide information.

### 4.7 The results announcement

The results of the metrics is usually released in December.

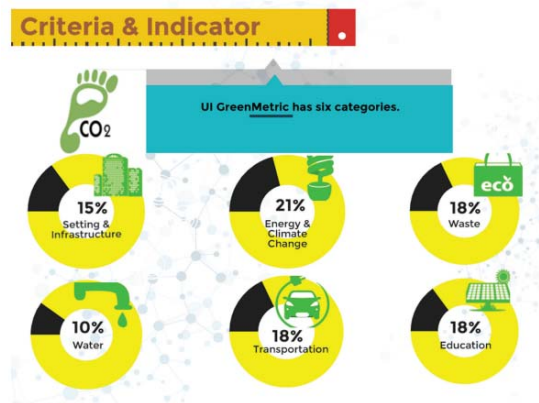


Fig. 1 UI GreenMetric ranking criteria in 2017

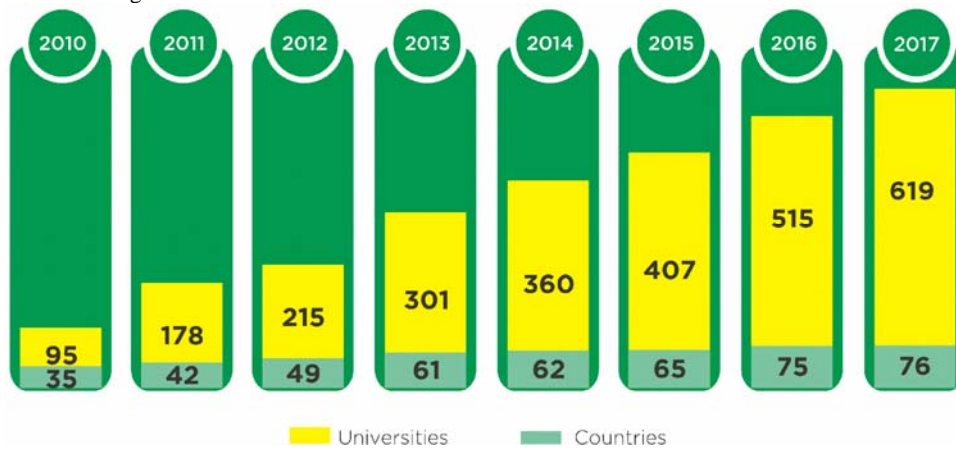


Fig.2 Number of UI GreenMetric's participating universities 2010-2017

## Speakers and Author's Profile



**Prof. H. Mohamad Nasir, Ph.D., Ak.**  
**Ministry of Research, Technology and Higher Education, Republic of Indonesia**

Minister Mohammad Nasir has been entrusted to head the integration of the Ministry of Research and Technology (Ristek) and the Directorate of Higher Education (Dikti), which was considered a significant task for the national commitment in implementing a paradigm shifting in teaching and research universities. Professor Nasir has been actively involved in the academic activities at the *University of Diponegoro (UNDIP)*. He was the Vice Rector of UNDIP in 2006 – 2010 and was about to be inaugurated as the Rector of the University in December 2014, before being appointed to be the Minister. Professor Mohammad Nasir hold a bachelor's degree in Economics from *University of Diponegoro (UNDIP)*; a Master of Science (M. Si) from *Gadjah Mada University (UGM)*, and a PhD in Accounting from the *Universiti Sains Malaysia (USM)*.



**Prof. Dr. Ir. Muhammad Anis, M.Met.**  
**Rector of Universitas Indonesia**

Muhammad Anis graduated from the Faculty of Engineering, Universitas Indonesia majoring in metallurgy in 1983. He then continued his education and earned his doctoral and master's degree in metallurgy from School of Materials, University of Sheffield, UK. Muhammad Anis has held various position within the Faculty of Engineering, among others as Vice Dean for Academic Affairs (1993-1997), Vice Dean for Cooperation (1997-2000) and Director of Extension Program for two terms (1993-2000). He was in member of the university's Senate (2000-2007). He was Universitas Indonesia's Director of Education for the terms 2003-2007 and was appointed a Vice Rector of Academic for the Term 2007-2012. In 2013, he was appointed as Interim Rector of Universitas Indonesia and was elected as a Rector of Universitas Indonesia for the term 2014-2019.



**Prof. Dr. Yos Johan Utama, S.H., M.Hum.**  
**Rector, Universitas Diponegoro, Indonesia**

Prof. Yos Johan Utama is a professor of Administrative Law in Indonesia. He has been a lecturer at the University of Diponegoro for 28 years since 1987. He was graduated with a doctoral degree in 2006 at the same university. His experience in this field makes him prominent speakers in the discussion and decision-making meetings. Based on these experiences, he also gives lecture at various universities, including at the Police Academy. Prof. Yos Johan Utama's interest in the management of higher education began when he became the Vice Dean at the Faculty of Law for two periods. He then became the Dean at the same faculty, also for two terms. With the desire to bring the University of Diponegoro to be modern research and sustainable university, he became Rector since 2015.



**Prof. Dr. Ir. Riri Fitri Sari, M.M., M.Sc.**  
**Chairperson of UI GreenMetric**

Riri Fitri Sari is a professor of Computer Engineering at Electrical Engineering Departement, Faculty of Engineering, Universitas Indonesia (UI). She holds PhD in Computer Networks from the School of Computing, University of Leeds, UK. Her current main teaching and research area includes Computer Network, Grid Computing, Intenet Things, and ICT for Sustainability. Since April 2010, she has been the Chairperson of UI GreenMetric Ranking of World Universities, a flagship program from the Universitas Indonesia to rank universities worldwide based on their green campus and sustainability programs. UI GreenMetric Network became an active network of more than 619 Universities from 76 Country. Since September 2015, she has been appointed a member of Special Task Force for Improving Indonesia Universities Academic Reputation for the Ministry of Research and Higher

Education. She was awarded as an honorary of professor from Kazakh National Agrarian University, Almaty – Kazakhstan on June 2017.



**Prof Adi Zakaria Afiff**

**Vice Rector for Administration, Finance and Infrastructure, University of Indonesia, Indonesia**

Prof Adi Zakaria Afiff has been Vice Rector for Administration, Finance and Infrastructure of the University of Indonesia since year 2012. He graduated from the Department of Accounting, Faculty of Economics, University of Indonesia in 1985, Earned his MBA Degree at University of Wisconsin in Madison with a double Major in Management Information System and Marketing in 1989 and his Doctorate degree in Marketing at Universitas Indonesia in 2003. In 2005. His research interest covers areas such as Social Marketing, Service Marketing, Brand Management, Marketing Communication and Consumer Behavior.



**Prof. Dr. Ir. Ambariyanto, M.Sc.**

**Vice-Rector for Research and Innovation, Universitas Diponegoro, Indonesia**

Prof. Dr. Ir. Ambariyanto MSc., is Vice Rector for Research and Innovation Diponegoro University and a Professor at the Faculty of Fisheries and Marine Sciences of Diponegoro University. He received his bachelor's degree from Department of Fisheries, Faculty of Animal Husbandry of Diponegoro University in 1986. His Master's degree in Ocean Sciences gained at the University of Wales in 1990. He achieved a Ph.D. in Marine Ecology at the University of Sydney, Sydney, Australia in 1996. He completed his Postdoctoral at the University of Sydney in 1997.



**Prof. Dr. Ir. Tommy Ilyas, M.Eng.**

**Expert Member of UI GreenMetric**

Prof. Dr. Ir. Tommy Ilyas, M. Eng is a expert member in UI GreenMetric. He graduated with his bachelor's degree from Engineering of Universitas Indonesia in 1977. He received a master's degree in the field Geotechnic from Sheffield University (UK) in 1983. He completed his doctor's degree from Universitas Indonesia with Natioanl University of Singapore in 2002. He Inaugurated as Professor of Universitas Indonesia in 2006.



**Prof. Ir. Gunawan Tjahjono, M.Arch., Ph.D.**

**Expert Member of UI GreenMetric**

Prof. Gunawan Tjahjono received his BSc of Architecture from University of Indonesia, Jakarta in 1975 and MSc of Architecture from University of California at Los Angeles. He completed achieved a Ph.D. in University of California at Berkeley. Since 1989, he is Member, Advisory Board of Traditional Dwellings and Settlements Review a University of California at Berkeley based refereed journal for International Association for the Studies of Traditional Environment. He appointed as professor Professor of Architecture, Faculty of Engineering, University of Indonesia since 2002. He also is Reviewer, Directorate General of Higher Education, Department of National Education, Republic of Indonesia for competitive grant in 2002 until now. In 2011-2015, He was appointed as the Rector of the University of Pembangunan Jaya.



**Mr. Junaidi, M.A.**

**Expert Member of UI GreenMetric**

Junaidi is an expert member of UI GreenMetric World University Rankings, and Lecturer in Linguistics and Cultural Studies at English Department, Faculty of Humanities, Universitas Indonesia. He holds degrees from English Department, Universitas Indonesia (Sarjana Sastra/BA in English language and Literature); and Warwick University, UK (M.A in British Cultural Studies, with Distinction). He is currently doing PhD in Linguistics at Universitas Indonesia. He has been actively involved in the internationalization of Universitas Indonesia from 2004 to 2015 with different university positions. He is UI 2011-2015 Head of International Office and Chairperson of ASEAN University Network- ASEAN Credit Transfer System (AUN-ACTS). He is also one of the resource persons for internationalization

of Indonesian universities at Ministry of Research and Higher Education, Republic of Indonesia.



**Dr. Baiduri Widanarko**  
**Expert Member of UI GreenMetric**

Dr. Baiduri Widanarko completed her Bachelor of Dental Surgery (DSS) degree at the University of Indonesia in 2000. In 2001, She joined the Departement of Occupational Health and Safety at University of Indonesia as a lecturer. In 2003, She completed her Magister in Occupational Health and Safety at the University of Indonesia. Uri gained a scholarship and joined the Center for Ergonomics, Occupational Safety and Health, Massey University, New Zealand, as a PhD student in October 2008. She completed her PhD in 2013 and continued her post-doctoral program until 2015. In 2015, She was appointed as Head of Occupational Health and Safety Undergraduate Program, Faculty of Public Health, University of Indonesia until now.



**Prof. Dr. Hadiyanto, S.T., M.T.**  
**Task Force Undip Ranking, Universitas Diponegoro, Indonesia**

Prof. Dr. Hadiyanto, MSc received his BSc of Chemical Engineering from Diponegoro University in 1998 and MSc of Bioprocess Engineering from Wageningen University, The Netherlands in 2003. While the degree of PhD has been obtained in 2007 from Wageningen University, Netherlands. After finishing his PhD, he had opportunity to work as scientist at NIZO Food Research BV Netherlands (2007-2009), and Research Associate at Process Intensification Group at TU DELFT Netherlands (2009-2010). Besides these works, he has also been invited as visiting research fellow at KU Leuven Belgium (2011), Kyoto University (2012) and DTU Denmark (2014). He is also actively involved in Sustainable Energy and Environmental (SEE) Forum, UNDIP green metric task force and coordinating world class university program since 2016. In 2016, he was appointed as the head of master program of environmental science, school of postgraduate studies and appointed as full professor on May 2017 in the field of bioprocess engineering.



**Prof. Jatna Supriatna, M.Sc., Ph.D.**  
**Chairman of Research Center for Climate Change (RCCC), Universitas Indonesia, Indonesia**

Prof. Jatna Supriatna, M.Sc., Ph.D. is a Chairman of Research Center for Climate Change (RCCC), Universitas Indonesia, Indonesia. After finished his Master of Science (1986) and Doctorate degree (1991) from the University of New Mexico, USA, plus pre and postdoctoral at Columbia University in New York, he serves as a Senior lecturer at the Biology Dept., Director of Biodiversity and Conservation Studies, Coordinator of Graduate Program on Conservation Biology of the University of Indonesia. He also became a chief editor of Tropical Biodiversity since 1992, Editor of Asia Primate Journal (2008), Board of editor of the International Journal of Wildlife Policy and Law, board of editor of Tropical Ecology, Consulting editor of Biosphere Conservation and board of Advisor of Earthwatch Institute (2002). In 2006, elected President of South East Asia Primatologist Association, and in 2007 assigned as Chairman of IUCN-SSC PSG South East Asia.



**Prof. Riyad Y. Hamzah**  
**President, University of Bahrain, Bahrain**

Prof. Riyad Y. Hamzah, is a professor of environmental biotechnology at the Arabian Gulf University and a member of the Council of Higher Education in the Kingdom of Bahrain. He earned his Ph.D. in biochemistry (enzymology) in 1984 from the University of Houston, USA He was involved in the establishment of the Arabian Gulf University, Bahrain, since its inception in 1984 and established and directed numerous new programs in various scientific and educational fields. He served in key academic and administrative posts including Director General of Finance and Administration, Dean of the College of Applied Sciences, and as the Vice-President of the Arabian Gulf University from 1994 to 2005.



**Prof. Tao-Ming Cheng**  
**President, Chaoyang University of Technology, Taiwan**

Professor and President Tao-ming Cheng has received his Ph.D. in 1996 from the School of Civil Engineering, Purdue University. He became a faculty member of the Department of Construction Engineering, Chaoyang University of Technology (CYUT), Taiwan from 1996. He was promoted as a full professor by CYUT in 2007. He had been the Head of the Department of CE, Acting Dean of the College of Science and Engineering, Dean of Academic Affairs. and the Vice President. He is now the President of CYUT. His research interests include construction ergonomics, construction operations modeling, and higher education management. He publishes more than 100 journal or conference papers in the past decade.



**Dr. Pornchai Mongkhonvanit**  
**President, Siam University, Thailand**

Dr. Pornchai Mongkhonvanit is the President of Siam University. Concurrently, he is also the chairperson of the advisory board of the Association of Universities in Asia and the Pacific as well as a member of the administrative board of the International Association of Universities. He is Honorary Professor at the Autonomous University of Guadalajara, Mexico and Guizhou University, China. He holds a Master of Business Administration in Finance Investment and Banking from the University of Wisconsin-Madison, a degree from the National Defense College of Thailand, and has studied at the Graduate School of Education, Institute of Educational Management and Harvard University.



**Prof. Ir. Joni Hermana, M.Sc.ES. Ph.D**  
**Rector, Institut Teknologi Sepuluh Nopember, Indonesia**

Prof. Ir. Joni Hermana, M. Sc. ES. Ph. D is Rector of Institut Teknologi Sepuluh Nopember (ITS) since 2015, Previously, he was the Dean of Faculty of Civil Engineering and Planning, ITS, 20017-2015. He was a member of Supervisory Board of Water Supply Enterprise (PDAM), Surabaya, 2002-2006. He graduated with his bachelor's degree from Environmental Engineering at the Institute of Technology Bandung (ITB) in 1986. He received Master of Science on Environmental Sanitation from the University of Ghent, Belgium in 1991. He completed his doctoral degree from the Philosophy Department on Environmental Engineering from University of Newcastle Upon Tyne, United Kingdom in 1997.



**Prof. Yuhlong Oliver Su**  
**President, National Chi Nan University, Taiwan**

Prof. Yuhlong Oliver Su is Professor of Department of Applied Chemistry and President of National Chi Nan University. He graduated with a bachelor's degree in Chemistry from National Taiwan University Taiwan. He holds a master's degree in Chemistry from National Taiwan Normal University. Prof. Yuhlong Oliver Su was a Vice President at the National Chung Hsing University in 2010-2011. He completed his PhD from Ohio State University, USA. He got Research Associate from Princeton University, USA. Since 1998 until now, he is Professor in Department of Applied Chemistry, National Chi Nan University, Taiwan. He was Secretary-General, Association of National Universities of Taiwan, 2010-2011. He expertises Electroanalytical Chemistry and Electrochemical Simulation, Porphyrin Chemistry, Organic Synthesis, Arylamine Chemistry.



**Dr. Arif Satria**  
**Rector, Bogor Agricultural University, Indonesia**

Dr. Arif received his undergraduate degree majoring in Social Economics, Faculty of Agriculture (IPB), then continued his master's degree in Rural Sociology of IPB and earned his Doctorate degree at Marine Policy of Kagoshima University, Japan. He also had been a Visiting Fellow at the University of British Columbia, Canada. Dr. Arif is a lecturer of FEMA IPB since 2010 after previously serving as a lecturer in the Department of Fisheries Social Economics IPB. He also is an adviser to the Minister of Marine Affairs and Fisheries in 2012.



**Prof. Dr. Fathur Rokhman, M.Hum**  
**Rector, Universitas Negeri Semarang, Indonesia**

Prof. Dr. Fathur Rokhman, M. Hum is the Rector of Universitas Negeri Semarang and a Professor of Sociolinguistics. He received his bachelor's degree from Education Program of the Indonesia Language of IKIP Bandung, 1990. He got his Master from the University of Indonesia, in 1996, and he received a Specialist Certificate in Language Curriculum and Material Development (RELC Singapore), 1998. He completed his Doctoral's degree in Linguistic at the Universitas Gadjah Mada, Jogjakarta, in 2003. He has a deep passion in environmental and cultural conservation. He embedded this passion to the university vision: to become a conservation university with international reputation.



**Prof. SeyedMohsen Najafian**  
**President, University of Zanjan, Iran**

Prof. SeyedMohsen Najafian was appointed as the President of the University of Zanjan in 2017. He was graduated from Sharif Technical University in Iran and was employed as the professor of mathematics of this university in 1994. He was the vice president of Student Affairs of this university before he gets appointed as the president. He has published several papers in international and national journals and conferences, he has supervised many graduate students.



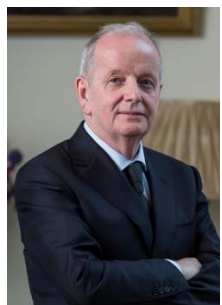
**Prof. Ravik Karsidi**  
**Rector, Universitas Sebelas Maret, Indonesia**

Prof. Ravik Karsidi is expert in the field of community empowerment. He was Vice-Rector I Academic Affairs, Cooperation and Development, Universitas Sebelas Maret, 2003-2007. He graduated with his bachelor's degree in 1980 from the Faculty of Education, Department of Educational Sciences, *Universitas Sebelas Maret* (UNS). He received his magister's degree (S-2) from the Bogor Agricultural University (IPB), on Rural Sociology Program for Development Studies Bogor, in 1994. Furthermore, he completed his Doctoral program (S-3), in 1999 at the Bogor Agricultural University (IPB). He is also an alumni of the National Leadership Training Lemhamnas PPSA XVI and graduated on July 2009.



**Prof. Dr. med. Tri Hanggono Achmad, dr**  
**Rector, Universitas Padjadjaran, Indonesia**

Prof. Dr. med. Tri Hanggono Achmad, dr has been Rector of Universitas Padjadjaran, Indonesia since 2015. Previously, he was Dean of Faculty of Medicine, Universitas Padjadjaran, in 2010 – 2015. He graduated Medical Doctor from Faculty of Medicine Universitas Padjadjaran in 1987. He had a took a course on Genetic engineering at the Inter University Centre – Institute of Technology Bandung, Bandung September-October 1990, course on Molecular Biology at the Inter University Centre – Institute of Technology Bandung, Bandung, October 1990 – February 1991 and short course on Animal Research Technology in Bad Onheusen – Germany, 1992. Then, He completed his Ph.D. from Institute of Clinical Biochemistry, School of Medicine, University of Bonn, Germany in 1995.



**Dr. Des Fitzgerald**  
**President, University of Limerick, Ireland**

Prior to taking up the post as President of University of Limerick in May 2017, Dr Des Fitzgerald was Professor of Molecular Medicine, UCD Vice-President for Health Affairs and Chief Academic Officer of the Ireland East Hospital Group. He is a UCD medical graduate who trained in Cardiology and Clinical Pharmacology at Vanderbilt University. He remained in the US until 1991 as Associate Professor of Medicine and Pharmacology and Director of the VA Coronary Care Unit. From 1994, he was Professor of Clinical Pharmacology and later Head of Research at RCSI. From 2004, he held various positions in UCD including Vice-President for Research. He has served on several national bodies, including the Irish Medicines Board, the Health Research Board (which he chaired) and the Irish Heart Foundation, as well as committees of the European Society of Cardiology, the UK National Institute for Health Research and the Merck Foundation International Fellowship Programme.



**Prof. Tlektés Yeszpolov**  
**Rector, Kazakh National Agrarian University, Kazakhstan**

Dr. Tlektés Isabaevich Yeszpolov is the Rector of Kazakh National Agrarian University and the Academician of National Academy of Sciences of the Republic of Kazakhstan. Dr Yeszpolov obtained his post graduate degree in Technical Sciences at Scientific Research Institute of Hydraulic Engineering in Moscow in 1982. After graduation, he worked in Kazakh Institute of Agriculture as a lecturer, associate professor and the Head of Industrial Research Laboratory of Kazakh Institute of Agriculture. In 1993 he was appointed as the Director of the Almaty Industrial College, and then as the Rector of the Almaty Industrial Pedagogical Academy. In 2001 was awarded the rank of Professor.



**Prof. Paulo Jorge de Sousa Cruz**  
**Pro-Rector for Quality of Life and Infrastructures, Universidade do Minho, Portugal**

Prof. Paulo Jorge de Sousa Cruz Graduated in Civil Engineering by the University of Porto in 1987. He completed his Masters in Structures by the University of Porto in 1991, and PhD in Construction Engineering by the Polytechnic University of Catalonia, Barcelona, in 1995; Habilitation in Structures by the University of Minho, in 2005. He was faculty member of the University of Minho since 1989, initially at the Civil Engineering Department, where he was Head of Department from 2003 to 2004, Dean of the School of Architecture from 2004 to 2011, Full Professor of Construction and Technology at the School of Architecture since 2008. He teaches and researches in the field of Structures, privileging the articulation between Structures and Architecture. Coordinator of the Construction and Technology Laboratory of the School of Architecture. He was Founder and President of the International Association of Structures and Architecture since 2016. Then, he also Founder of ASCP - Portuguese Association for the Safety and Maintenance of Bridges and President since 2006.



**Prof. Mirko Degli Esposti**  
**Deputy Rector, Università di Bologna, Italy**

Prof. Mirko Degli Esposti is a Deputy Rector of Università di Bologna since November 2016. He is full Professor in Mathematical Physics. He had been Head of the Department of Mathematics and member of the Academic Senate of the University of Bologna in 2008-2015. He graduated with a bachelor's degree from Physics of University of Bologna in 1988. Subsequently, he completed his PhD in Mathematics (Caltech and PennState, USA), 1992 and his Postdoctoral fellow in Mathematical Science Research Institute (M.S.R.I), Berkely, California USA, 1993. In 1998-2000, He was visiting Professor at the Georgia Institute of Technology, USA. He is also member of the Center «L. Galvani» for integrated studies on bioinformatic, biophysics and bio-complexity. He was representing the University of Bologna as a member of the IREG Observatory, since 2016. He was a member of the QS Intelligence Unit Advisory Board (since November 2016). He was an acting as coordinator of a working group on Academic rankings (access with password) at the Conference of Italian University Rectors, CRUI (since October 2017- 34 participating universities).



**Xu Pan**  
**Vice President, Shandong Normal University – Lishan College, China**

Xu Pan is mainly engaged in the research work of comprehensive utilization technology of organic waste, the technology of solar thermal utilization, low grade heat energy utilization technology. After obtaining Master of Engineering (2009) from Shandong University of Technology, he served as the general manager of Lucy Machinery Co., Ltd. In 2010, as one of the founders, he also became the general manager of Lucy New Energy Technology Co., Ltd. Ever since 2013, in Lishan College, he has served as vice president of the new energy engineering school, director of research department, and vice president, actively participating in the construction of zero-carbon campus of Shandong Normal University - Lishan College.



**Dr. Majid Monemzadeh**  
**Vice-Chancellor for Research, University of Kashan, Iran**

Dr. Majid Monemzade is Vice Chancellor for Research and Technology at Kashan University. Previously, He was Head of Department of Physics, University of Kashan in 2006 - 2007. He graduated with his bachelor's degree in 1997 from Department of Physics, Isfahan University of Technology. Subsequently, He received his magister's degree (S-2) from Isfahan University of Technology, in 2000. Furthermore, he completed his Doctoral program (S-3), in 2005 at Isfahan University of Technology. His researches are Heavy Quarks Models, Tetraquark Systems, Second-Class Constraints, BFFT embedding, Constrained systems. Until now he has write and publish many journal, some of them are indexed by Scopus.



**Associate Professor Boonchai Stitmannathum, D.Eng.**  
**Vice President for Administration, Chulalongkorn University, Thailand**

Dr. Boonchai Stitmannathum is Associate Professor in Structural Engineering, Chulalongkorn University. He has been a Vice President of Physical Resources Management since 2012. Previously, he was Assistant to the President (Physical Resources Management), 2008-2012. He graduated with his bachelor's degree from Civil Engineering at Chulalongkorn University, 1987. Subsequently, he received Master of Structural Engineering and Construction, AIT, Thailand, 1989, and he completed his Doctor in Civil Engineering at University of Tokyo, Japan, 1992. His research is Specialization Structural Engineering and Concrete Technology. He had got The Outstanding Technologist Award 2002, The Science and Technology Promotion Foundation and National Science and Technology Development Agency.



**Dr. Thatchavee Leelawat**  
**Acting Vice President for Information Technology and Kanchanaburi Campus, Mahidol University, Thailand**

Dr. Thatchavee Leelawat is Acting Vice President for Information Technology and Kanchanaburi Campus, Mahidol University, Thailand. He graduated with his bachelor's degree from Chulalongkorn university, Thailand on Civil Engineering. He was graduated doctoral degree in 2000 University of Dundee, UK and got his master from same university in 1995. His researches are Durability of concrete, Rust reinforced concrete structure, Non-destructive, testing for infrastructure audit and evaluation., Repair of reinforced concrete structures, and Re-use of recycled concrete in civil engineering.



**Dr. Marcio Machado Ladeira**  
**Representative of Rector, Universidade Federal de Lavras – UFPA, Brazil**

Bachelor at Animal Science from Universidade Federal de Viçosa (1995), Master's at Animal Science from Universidade Federal de Viçosa (1998), PhD at Animal Science from Universidade Federal de Minas Gerais (2001), and sabbatical study at Purdue University (2013). Today is Associate Professor of Universidade Federal de Lavras, acting as Advisor for Academic Development of UFPA Rector Office.



**Dr. Maria Kirrane**  
**Representative of President, University College Cork, Ireland**

Dr. Maria Kirrane is a Sustainability Officer of University College Cork since May 2017 until now. In 2009, she graduated with her bachelor's degree in Ecology, her main interests being the effects of invasive species on ecosystems. This, combined with a fascination in honey bee behavior, led her to pursue research in the area of the varroa mite. She was Postdoctoral Researcher of University of Limerick in 2016 – 2017. She completed her Doctor from University College Cork, Ireland





**Dr. Mohd Fadhill Md Din**  
**Representative of Vice Chancellor, Universiti Teknologi Malaysia (UTM), Malaysia**

Dr. Mohd Fadhill Md Din is Director of UTM Campus Sustainability Office. He graduated from UTM in 1999, also holding Master of Engineering in 2001 after graduated bachelor's degree in 1999 as a Tutor. Then, he completed his Master level under the supervision of Assoc. Prof. Dr. Azmi Aris (UTM, Malaysia) and Prof. Dr. Morgens Henze (Denmark Technical University, DTU). Then, further study under double-programme, between UTM (Malaysia) and TUDelft (The Netherlands). The study is comprehended with Dutch-Malaysian collaborations under the PhD scheme. Since 2006, the continuation of Research-Business was started with the aims of product commercialization. His current research Areas/Topics are Environmental Water and Wastewater Engineering, Bioenergy and Processes, Urban Heat Island



**Prof. Dr. Ahmad Zaharin Aris**  
**Representative of Vice Chancellor, Universiti Putra Malaysia, Malaysia**

Professor Dr. Ahmad Zaharin Aris, CEnv, MRSC, FGS, the 2016/2017 SEARCA Regional Professorial Chair obtained his BSc (Hons) degree in Environmental Science and PhD degree in the field of Environmental Science (Hydrochemistry) from Universiti Malaysia Sabah. He is a Professor at the Department of Environmental Sciences, Faculty of Environmental Studies, Universiti Putra Malaysia (UPM) specializing in the field of Hydrochemistry, Environmental Chemistry and Analysis and Environmental Forensics. He now serves as the Dean in the Faculty of Environmental Studies, UPM. Currently, he is also the Chair for the Universiti Putra Malaysia working committee on Sustainable Green Campus.



**László Gyarmati**  
**Representative of Rector, University of Szeged, Hungary**

László Gyarmati took his master's Degree at the University of Szeged Faculty of Economics and Business Administration in 2012. During his studies, he started his professional career as a PR trainee at the Management of the University of Szeged Study and Information Centre. At present, he is the Director of this Centre thus he is responsible for the environment-conscious behaviour and for the energy-efficient operation of the building. Besides, László Gyarmati has been co-ordinating and providing data on behalf of the University of Szeged for the UI GreenMetric survey for seven years. He has also been supporting the development of the Sustainability Strategy of the University; after his study tours in Europe and in the United States of America, he prepared the Sustainable Strategy Plan Suggestions for the University of Szeged with his colleagues' cooperation and has been working on realizing it ever since.



**Prof. Marcus Jopony**  
**Representative of Vice-Chancellor, Universiti Malaysia Sabah, Malaysia**

Prof. Dr. Marcus Jopony is currently holding the post Assistant Vice-Chancellor as well as the Director of Centre for Strategic Management and Corporate Communication, Universiti Malaysia Sabah (UMS). He is also a member of the Board of Directors as well as Senate of UMS. He graduated with BSc. Hons in Chemistry from Universiti Kebangsaan Malaysia, MSc Soil Chemistry from University of Reading and PhD in Environmental Science from University of Nottingham. He joined UMS in 1995 and have been teaching among others, chemistry, environmental chemistry, environmental science and pollution control technology courses at the Faculty of Science and Natural Resources.



**Prof. Matteo Colleoni**  
**Representative of Rector, Università degli Studi di Milano Bicocca, Italy**

Prof. Matteo Colleoni took his doctor's degree at University of Trento in 2003 and got his 2nd Level master's Degree in Time Policies for the Quality of Life and Sustainable Mobility Politecnico of Milan at Universität Hamburg. He works as Deputy Coordinator of the Mobility Manager Network of the Italian Universities (within the Network of Italian University for Sustainability – RUS). He interests in sustainable urban mobility, environmental studies, metropolitan areas & urban change, time-space analysis and accessibility & transport exclusion.



**Prof. Godfrey A. Uzochukwu**  
**Representative of Chancellor, North Carolina Agricultural & Technical State University, USA**

Godfrey Arinze Uzochukwu, PhD, Professor, is the founding director of the Interdisciplinary Waste Management Institute (WMI) of North Carolina Agricultural and Technical State University (NC A&T). Dr. Uzochukwu completed his B.S. and M.S. degrees at Oklahoma State University and his PhD degree at the University of Nebraska. He was a Post-Doctoral Scholar at Texas A&M University before joining the faculty of North Carolina Agricultural and Technical State University. He teaches geology, mineralogy, soil genesis & landuse, environmental science and has worked closely with more than 9,500 students from different disciplines at North Carolina A&T State University. Dr. Uzochukwu was a member of the Deans' Council. Dr. Uzochukwu served on the Executive Committee of the National Council of Environmental Deans and Directors (CEDD). He was a member of the North Carolina Legislative Commission on Global Climate Change.



**Dr. Ut V. Le**  
**Representative of President Ton Duc Thang University, Vietnam**

At Ton Duc Thang University (TDTU), Vietnam, Dr. Ut V. Le Officially is appointed as Member, University Board, Deputy Director, Acting Director, Director of Research Affairs, Director of Foundation of Science and Technology Development in 2012 until now. He was researcher, Institute for Computation in Science and Technology, Ho Chi Minh City, Vietnam, 2012. He was Posdoctoral researcher, funded by Academy of Finland, working at University of Oulu, Finland in 2011-2012. He completed his Doctor of Philosophy in Mathematics from University of Oulu, Finland in 2011.



**Prof. Mario A. Gandini**  
**Representative of Rector, Universidad Autonoma de Occidente, Colombia**

Prof. Mario A. Gandini holds a B.Sc. in Sanitary Engineering, a M.Sc in Environmental Policy and Management and a Ph.D in Environmental Engineering. He has been working in the academic sector as a lecturer and a researcher for 20 years, in the main area of pollution control, including wastewater treatment, ecological sanitation and solid waste management with a focus on leachate treatment. At the Universidad Autónoma de Occidente –UAO- (Cali, Colombia), currently he is the Head of the B.Sc. Program in Environmental Engineering, as well as, the Head of the UAO Sustainable Campus Program.



**Prof. M. Pinar Mengüç**  
**Representative of Rector, Ozyegin University, Turkey**

Professor M. Pinar Mengüç received his PhD on Mechanical Engineering from Purdue University, USA in 1985. The same year he joined the University of Kentucky as an assistant professor and became a professor in 1993. He was a visiting professor at the Harvard University during 1998-99, and was awarded an Honorary Professorship at ESPOL, Ecuador in 2006. At the end of 2008, he was promoted to Engineering Alumni Association Chair Professor at Kentucky. He holds five patents and has two patent applications. He is the author of more than 130 articles in international journals, 170 conference papers and the co-author of two books. In 2009, he established the Centre for Energy, Environment and Economy

(CEEE), which he is still directing. He is a fellow of ASME and ICHMT, a Senior Member of OSA; in 2016 he was elected to Science Academy, Turkey. His research areas include radiative transfer, applied optics, nano-scale thermal transport and sustainable energy applications.



**Evgeny Zakablukovskiy, Ph.D.**  
**Representative of Rector, Minin University, Russia**

Evgeny Zakablukovskiy, Ph.D. is Adviser to the Rector of Minin University since In 2015 until now. Previously, He was working in Intel Corporation (Russia) as Country Community & GR Manager Regional Public Affairs Manager in 2003 – 2014. In 2002 – 2003, He is Deputy Chief of Staff N. Novgorod Regional Government. In 2008, he got High Performance Instructor of Intel University. No. 6 in top 100 Russian PR managers in IT and Telecom. He got Doctor of Philosophical Anthropology from Minin University in 2015. He took a specialist degree in Volga Public Administration Academy, Nizhny Novgoro in 2015 and in Dobrolyubov Linguistic University, Nizhny Novgorod in 1996.



**Alexandra Leal Castellanos**  
**Representative of Rector, Pontificia Universidad Javeriana, Colombia**

Currently, Alexandra Leal Castellanos is Director of University Services October since 2006 and President of the Board of JAVESALUD, since 2016. She was Director Center for Continuing Education in 1992 – 2006. She graduated from Pontificia Universidad Javeriana on Civil Engineer of Faculty of Engineering, 1983. Then, she completed her Master of Marketing Management Specialist from same university, 2002. She studied n Advanced Management program as Senior Management Program for Business Executives in Esade Business School- Madrid, Spain, 2013, in Advanced Negotiation Program in Harvard University -Business School, 2015, in Negotiation Strategies Program in Yale University, 2017, Training in personal and executive coaching. TISOC – Spain, 2017, and in Executive leadership program, Yale University School of Management.



**Jose Herney Ramirez Franco**  
**Representative of Rector, National University of Colombia, Colombia**

Jose Herney Ramirez Franco is an Associate professor at Chemical Engineering Department, Engineering Faculty, Universidad Nacional de Colombia. His research areas are in development, preparation, characterization and application of new materials based on clays, coals zeolites and silicas, and synthesis and use of these materials in the treatment of waste water. He received his bachelor's degree in Chemical Engineering from National University of Colombia, Colombia in 1998. He continued his magister in Chemical Engineering. São Paulo University, São Paulo – Brazil in 2003. He completed his Doctoral's degree in Chemical Engineering, Oporto University. Porto – Portugal in 2008.



**Dr. Jik-Chang Leong**  
**Representative of President, National Pingtung University of Science and Technology, Taiwan**

Prof. J.C. Leong received his Ph.D. in Mechanical Engineering from the University of Oklahoma, USA in 2002 with his dissertation: Heat Transfer and Fluid Flow in Rotating Cylinders with a Porous Sleeve. He is a professor at the Department of Vehicle Engineering and also the Dean of the International College, National Pingtung University of Science and Technology. His research interests are: Heat and Mass Transfer, Flow Visualization Techniques, Ventilation and Fire Safety in Long Tunnels, Car Cabin Air-Conditioning and Ventilation System, Magnetic Fluid Flow.



**Juris Iljins**  
**Representative of Rector, Riga Technical University, Latvia**

Mr. Juris Iljins currently is a Quality Manager and Sustainability Director at Riga Technical University. Currently he is doing his PhD in the field of Change Management. Mr. Iljins is also a former board member of the Latvian Higher Education Council. He has been active internationally to promote sustainability with his scientific interest mainly focusing on how to effectively manage and measure change in various processes. Mr. Iljins is responsible for developing, maintaining the quality management system within RTU and pursuing sustainable development goals at RTU. Mr. Iljins is a two-time alumni of Riga Technical University with a degree in MSc. Industrial Engineering and Management, a bachelor's degree and engineering qualification in Heat, Power and Thermal Engineering.



**Nguyen Thi Mai Khanh**  
**Representative of Rector, Tra Vinh University, Vietnam**

Nguyen Thi Mai Khanh is Director of International Collaboration and Project Promotion, Tra Vinh University, Vietnam since 2014. Previously, she was Vice – Director of International Collaboration and Project Promotion of Tra Vinh University, in 2010 – 2014 and Director, Center for International Collaboration in Training and Education (CiCet) in 2009 – 2010. She graduated from a bachelor's degree majoring in English Teaching from Can Tho University, Vietnam. Subsequently, she continued her Master of Art in English Teaching Methodology at the University of Social Science and Humanity, Ho Chi Minh City. She took her Diploma in “English as a Foreign Language: English Language and Teaching Methods for International English Teachers”, Carleton University, Canada and she achieved a certificate of “Theory and Practice for the Context of Teaching English as a Foreign Language for Academic Purposes” from Carleton University, Canada.



**Prof. Patricia Iglecias**  
**Representative of Rector, University of Sao Paulo (USP), Brazil**

Prof. Patricia Iglecias is Associate Professor, Department of Civil Law, USP Law School (2011), PhD (2007) and a master's degree (2002) by the same institution. Advisor of the master's and doctorate courses at the Faculty of Law of USP and PROCAM Environmental Science Program of USP. Currently, she is Superintendent of Environmental Management at USP and a leading researcher at the Environmental Applied Studies Group: preventive and reparative damages (USP), registered at CNPq. Main areas of activity: sustainable consumption; reverse logistics; Solid wastes and post-consumer liability; Shared responsibility; Causal link; Contaminated areas; Civil liability for damages to the environment; environmental compensation. Lecturer in Brazil and abroad, has several published works, highlighting the book: Solid waste and post-consumer civil liability, "by Editora Revista dos Tribunais. Vice President for the Southeast Region of the Institute The Right for a Green Planet. Member of the Association of Teachers of Environmental Law of Brazil APRODAB. Member of CERESOL. Multidisciplinary Center for Studies on Solid Waste at USP. Member of the European Environmental Law Association. She was the Secretary of State for the Environment of São Paulo.



**Samantha Fahy**  
**Representative of President, Dublin City University, Ireland**

Samantha Fahy holds a primary Science degree from NUI Galway (1991), a Master in Optoelectronics from Queen's University Belfast (1992), a diploma in Management from Trinity College Dublin (1997) and an MBA from Dublin City University (2010). In 2004 Samantha was appointed Centre Manager for the National Centre for Plasma Science and Technology. In 2012 Samantha took on the part-time role of Manager of Sustainability at DCU, an initiative to develop and promote Sustainability across all educational functions, and moved to full-time in 2013. Samantha has over 20 years of experience in the management and administration of high technology research projects and has developed a deep understanding of research practice gained from working closely with outstanding researchers engaged in complex projects, such as SFI Strategic Research Clusters.



**Associate Professor Dr. Sumiani Yusoff**  
**Representative of Vice-Chancellor, University of Malaya, Malaysia**

Associate Professor Dr, joined the Faculty of Engineering, UM in September 1990, specialising in Environmental Engineering and Management. She obtained her PhD in Environmental Engineering and Management from University of Malaya, MSc in Public Health and Environmental Control Engineering from University of Strathclyde, Glasgow, Scotland, United Kingdom and Bachelor of Civil Engineering (Hons) from Universiti Teknologi Malaysia. Currently she is Dean of Sustainability Science Research cluster in UM. Prior to that she was the Deputy Director and Chief Auditor of the Quality Management and Enhancement Centre (QMEC), UM. She teaches postgraduate and undergraduate courses in Environmental Management Systems, Solid Waste Management, Environmental Impact Assessment, and Life Cycle Management. She has published the UM Eco campus Blueprint.



**Dr. Noralfishah Sulaiman**  
**Representative of Vice Chancellor, Universiti Tun Hussein Onn Malaysia, Malaysia**

Dr. Noralfishah Sulaiman is the Head of Sustainable Campus Unit (SCU) at Universiti Tun Hussein Onn Malaysia (UTHM). In February 2017. She also the head of KANZU Research: Resilient Built Environment Research Group, Universiti Tun Hussein Onn Malaysia (UTHM). Dr. Sulaiman's expertise lies in the fields of Resilient City Research (RCR), Resilience in Aging (RIA), Real Estate and Facilities Management, Information Technology in Real Estate, Internet of Things in Housing Sector, Social Care Facilities Management.

## About Universitas Indonesia

Universities, today, are uniquely positioned to address global challenges. As the result thereof, Universitas Indonesia (UI) is fully committed to seek solutions to the century's most pressing global challenges, enhance the education of future leaders and strengthen its academic endeavor. UI is innovative within our own institutions, in terms of how we are structured and governed and how we adapt to global challenge.

Having experience from year 1849 in higher education, our university is rich in history, academic excellence and its contribution to both Indonesian and international society. UI plays an active role on higher learning associations in Asia Pacific, Europe, Southeast Asia, and worldwide association such as APRU (Association of Pacific Rim Universities), ASAIHL (Association of South East Asia Institution of Higher Learning), and AUN (ASEAN University Network), in which UI is the host for AUN Credit Transfer Secretariat. Quality Culture is one of UI mottoes to preserve and improve the good quality in academic and non-academic aspects, in order to provide the best services to its stakeholders. In return, UI retains its position to be amongst the top 400 universities in the world. UI is also an active member of ASEAN University Network – Quality Assurance (AUN-QA) since 2002. In 2017, UI completed the AUN University Institution Wide Assesment and received a good result. Until 2017, 28 undergraduate study programs have accomplished AUN-QA assessment, Magister Public Health Study Programme has achieved accreditation through Asia Pacific Academic Consortium for Public Health (APACPH), and Magister Management Study Programme has been accredited by The Alliance on Business Education and Scholarship for Tomorrow (ABEST 21). In 2017, UI is ranked 277 in QS World University Ranking, and ranked among 800 best universities in Times Higher Ranking.

Last but not least, the campus of UI is located in greeneries consisting of 320 hectares with 6 lakes. The university maintains the ecology conservation while developing world class academic facilities. In addition to that, as a member of IREG Observatory on Academic Ranking and Excellence (IREG observatory), UI has released UI GreenMetric University Ranking that ranks universities throughout the world according to appointed indicators of campus environmental issues such as setting and infrastructure, energy, waste management, water, transportation, and education for the past 8 years. Currently, UI have 49,000 students and approximately 6,000 academic staffs.



**Fig 1.** Landscape of Universitas Indonesia, Depok Campus

## About Diponegoro University

Diponegoro University (Undip) is a prominent university located in Semarang, the capital of Central Java province, and is considered as the best university in the province. Initially named as University of Semarang, Diponegoro University was a private university founded on January 9, 1957. On its anniversary, President Soekarno changed the name of the University of Semarang to Diponegoro University and changed its status to state university, which was then legally confirmed through government decree. The university was named after a hero of Central Java, "Prince Diponegoro", whose heroism spirit against the Dutch colonialism in the early century is tightly memorized by the Indonesian people. This spirit inspires Undip in developing research and education in science and technology as well as their application for people welfare. On its establishment, Undip had Faculty of Law as the only faculty. Soon after, several other faculties were established, i.e. Faculty of Social and Political Science in 1957, Faculty of Engineering in 1958, Faculty of Economics in 1960, Faculty of Animal Agriculture in 1964, and Faculty of Letters in 1965 which was later changed into Faculty of Humanities. Due to the high demand of high school graduates to continue their study as well as the demand for developing science and technology in various fields, more faculties were established.

***In establishing its goal as research university by 2020, Diponegoro University implements its teaching and community service based on the result of its research, which is focused not only as the 'preservation of knowledge' but also as 'the advancement of knowledge'***

Undip is one of the best universities in Indonesia, as it is supported by reliable resources. It is the oldest and the biggest university in Central Java. As a state university, Undip is supported by the government of the Republic of Indonesia. At present, Undip has 7 campuses with total area of 2,444,852.48 square meters. The main campus is Tembalang campus at which all faculties, rectorate office building, university main hall, computer and language centers, research center, training center, student center, main library, and community service office are located. The second largest campus is in the heart of Semarang, i.e. in Jl. Imam Bardjo, at which offices and classrooms for most of graduate programs are located. The third biggest campus is located in Teluk Awur, Jepara, which is 100 km north east of Semarang. This campus is mainly for the Faculty of Fisheries and Marine Science. Another campus is in Jl. Dr. Soetomo, in which several classrooms and laboratories of the Faculty of Medicine are located.

In 2009, Undip started the construction of University Hospital in Tembalang Campus. The hospital is intended to facilitate more comfortable teaching and learning process for both academic staffs and students of the Faculty of Medicine. Each year Undip admits approximately 11,912 new students, which means that Undip has approximately 52,030 students.



**Fig. 1.** Landscape of Diponegoro University, Semarang

# Participant List

TITLE	FULL NAME	NATIONALITY	INSTITUTION	POSITION	EMAIL
Dr.	Sri Mulyani	Indonesia	Ministry of Finance	Minister of Finance	-
Dr.	Agus Justianto	Indonesia	Ministry of Environment and Forestry, Republic of Indonesia	Head of Research, Development, and Innovation	-
Prof.	Jatna Supriatna	Indonesia	Research Center for Climate Change, UI	Chairman	jatna.supriatna@gmail.com
Prof.	Muhammad Anis	Indonesia	Universitas Indonesia	Rector	rektor@ui.ac.id
Prof.	Yos Johan Utama	Indonesia	Universitas Diponegoro	Rector	rektor@undip.ac.id
Prof.	Adi Zakaria Afiff	Indonesia	Universitas Indonesia	Vice-Rector	adi.zakaria@ui.ac.id
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# Workshop Program

<b>THE 4<sup>th</sup> INTERNATIONAL WORKSHOP ON UI GREENMETRIC WORLD UNIVERSITY RANKINGS</b> <i>“Universities, Impacts and Sustainable Development Goals (SDGs)”</i> <b>8-10 April 2018</b> Universitas Diponegoro, Semarang, Indonesia	
<b>DAY 1: 8 APRIL 2018 – SUNDAY</b> Venue: Meeting Room, Grand Candi Hotel, Semarang	
Timing	Session
<b>Whole day</b>	<b>Arrival of participants</b>
01:00 PM – 02:00 PM	Networking Lunch (by invitation)
02:00 PM - 05:45 PM	<b>UI GWURN Steering Committee Meeting (by invitation)</b> Venue: Meeting Room, Grand Candi Hotel, Semarang <ol style="list-style-type: none"> <li>1. Welcome of National Coordinators, quorum established</li> <li>2. Secretariat UI GreenMetric (Prof. Riri Fitri Sari, Mr. Junaidi, M.A., and Prof. Tommy Ilyas)</li> <li>3. Adoption of the agenda</li> <li>4. Remarks by <b>Prof. Adi Zakaria Afiff</b>, Vice Rector of Finance, Logistics and Facilities, Universitas Indonesia</li> <li>5. Adoption of the minutes of the 1<sup>st</sup> Steering Committee Meeting in Istanbul, 9 April 2017 (Doc. 3)</li> <li>6. Report of Activities of UI GWURN and national coordinators:               <ul style="list-style-type: none"> <li>• <b>Prof. Patricia Iglecias</b>, Representative of Rector, University of Sao Paulo (USP), Brazil</li> <li>• <b>Mr. Xu Pan</b>, Shandong Normal University - Lishan College, China</li> <li>• <b>Mr. Caizergues</b>, Representative of Dean, Insec U., France</li> <li>• <b>Prof. Yos Johan Utama</b>, Rector, Universitas Diponegoro, Indonesia</li> <li>• <b>Prof. Mirko Degli Esposti</b>, Deputy Rector, University of Bologna, Italy</li> <li>• <b>Prof. SeyedMohsen Najafian</b>, President, University of Zanjan, Iran</li> <li>• <b>Dr. Maria Kirrane</b>, Representative of President, University College Cork, Ireland</li> <li>• <b>Mr. Abzal Abdramanov</b>, Representative of Rector, Kazakh National Agrarian University, Kazakhstan</li> <li>• <b>Mr. Juris Iljins</b>, Representative of Rector, Riga Technical University, Latvia</li> <li>• <b>Dr. Syed Naveed Hussain Shah</b>, Pakistan Higher Education Commission, Pakistan</li> <li>• <b>Prof. Paulo Jorge de Sousa Cruz</b>, Pro-Rector for Quality of Life and Infrastructures, Universidade do Minho, Portugal</li> <li>• <b>Dr. Thatchavee Leelawat</b>, Acting Vice President for Information Technology and Kanchanaburi Campus, Mahidol University, Thailand</li> <li>• <b>Mr. Andy Nolan</b>, Representative of Vice-Chancellor, University of Nottingham, United Kingdom (by skype)</li> <li>• <b>Dr. Mohamad Farizal Bin Rajemi</b>, Representative of Vice-Chancellor, Universiti Utara Malaysia, Malaysia (by skype)</li> <li>• <b>Mr. Habib M. Fardoun</b>, Representative of Rector, King Abdul Aziz, Saudi Arabia (by skype)</li> <li>• <b>Dr. Margarita Redina</b>, Representative of Rector, People’s Friendship University Russia (RUDN), Russia (by skype)</li> </ul> </li> <li>7. Discussion on the future activities of UI GWURN               <ul style="list-style-type: none"> <li>- Shaping Global Higher Education and Research in Sustainability</li> <li>- Creating Global Sustainability Leaders</li> <li>- Partnering on Solutions to Sustainability Challenges</li> </ul> </li> <li>8. Any other business</li> <li>9. Closing</li> </ol>
07:00 PM - 09:00 PM	UI GWURN Steering Committee Dinner, hosted by Rector Universitas Diponegoro (by invitation) Venue: Koena-Koeni Restaurant

<b>DAY 2: 9 APRIL 2017 – MONDAY</b>			
Venue: Auditorium of Rectorate Building, Universitas Diponegoro			
07:00 AM	Bus Transfer from Hotel to Rectorate Building, Universitas Diponegoro		
07:00 AM - 08:00 AM	<b>Registration for Delegates</b>		
08:00 AM - 08:10 AM	<ul style="list-style-type: none"> <li>• Safety Induction</li> <li>• Indonesian National Anthem "<b>Indonesia Raya</b>"</li> </ul>		
08:10 AM - 08:35 AM	<b>Remarks</b> Venue: Rectorate Building, Universitas Diponegoro <ul style="list-style-type: none"> <li>• <b>Prof. Yos Johan Utama</b>, Rector of Diponegoro University</li> <li>• <b>HE Sri Mulyani Indrawati, S.E., M.Sc., Ph.D.</b>, Minister of Finance, Republic of Indonesia</li> <li>• <b>Prof. Riri Fitri Sari</b>, Chairperson of UI GreenMetric World University Rankings</li> </ul>		
08:35 AM - 09:15 AM	<b>Keynote Speeches</b> <ul style="list-style-type: none"> <li>• <b>Dr. Harry Purwanto</b>, Expert Staff to Minister of Research, Technology and Higher Education, Republic of Indonesia</li> <li>• <b>Dr. Agus Justianto</b>, Head of Research, Development, and Innovation of Ministry of Environment and Forestry, Republic of Indonesia</li> </ul>		
09:15 AM – 09:30 AM	<b>Technical Address (Special Issues on University Environment)</b> <ul style="list-style-type: none"> <li>• <b>Biodiversity Index</b> <b>Prof. Jatna Supriatna</b>, Chairman of Research Center for Climate Change (RCCC), Universitas Indonesia, Indonesia</li> </ul>		
09:30 AM - 09:45 AM	Signing of Declaration of Membership of UI GreenMetric Network		
09:45 AM - 10:15 AM	Group photo and Coffee Break		
10:15 AM - 11:15 AM	<table border="0" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> <b>Parallel Session 1 A</b>  <b>Issues and Innovation in Managing Setting and Infrastructure</b>  Venue: Room 1, Rectorate Building, Universitas Diponegoro   Chair:  <b>Dr. Esmail Karamidehkordi</b>  International Scientific Cooperation Office, University of Zanjan, Iran  <i>(4 presentations – 15 Minutes Each)</i> <ul style="list-style-type: none"> <li>• <b>Managing University Landscape and Infrastructure towards Green and Sustainable Campus</b> <b>Prof. Adi Zakaria Afiff</b>, Vice Rector of Finance, Logistics and Facilities, Universitas Indonesia</li> <li>• <b>The Challenges of Adopting BIM for Setting and Infrastructure Management of the University of Minho</b> <b>Prof. Paulo Jorge de Sousa Cruz</b>, Pro-Rector for Quality of Life and Infrastructures, Universidade do Minho, Portugal</li> <li>• <b>The University of São Paulo on the 2017's GreenMetric Ranking</b> <b>Prof. Patricia Iglecias</b>, Representative of Rector, University of Sao Paulo (USP), Brazil</li> <li>• <b>Green at Universiti Putra Malaysia: Cultivating the Green Campus Culture</b> <b>Prof. Dr. Ahmad Zaharin Aris</b>, Representative of Vice Chancellor, Universiti Putra Malaysia, Malaysia</li> </ul> <i>Question and Answer</i> </td> <td style="width: 50%; vertical-align: top;"> <b>Parallel Session 1 B</b>  <b>Issues and Innovation in Managing Setting and Infrastructure</b>  Venue: Room 2, Rectorate Building, Universitas Diponegoro   Chair:  <b>Prof. Dr. Hadiyanto, S.T., M.T.</b>  TaskForce Undip Ranking, Universitas Diponegoro, Indonesia  <i>(3 presentations – 15 Minutes Each)</i> <ul style="list-style-type: none"> <li>• <b>Setting and Infrastructure at North Carolina Agricultural and Technical State University</b> <b>Prof. Godfrey A. Uzochukwu</b>, Representative of Chancellor, North Carolina Agricultural &amp; Technical State University, USA</li> <li>• <b>Greening Campus Experience: Moving towards Living Laboratory Action Plan</b> <b>Dr. Mohd Fadhil Md Din</b>, Representative of Vice Chancellor, Universiti Teknologi Malaysia (UTM), Malaysia</li> <li>• <b>Making an Urban University 'Green': Uniting Administration and Students towards Synergy</b> <b>Evgeny Zakablukovskiy, Ph.D.</b>, Representative of Rector, Minin University, Russia</li> </ul> <i>Question and Answer</i> </td> </tr> </table>	<b>Parallel Session 1 A</b> <b>Issues and Innovation in Managing Setting and Infrastructure</b> Venue: Room 1, Rectorate Building, Universitas Diponegoro  Chair: <b>Dr. Esmail Karamidehkordi</b> International Scientific Cooperation Office, University of Zanjan, Iran <i>(4 presentations – 15 Minutes Each)</i> <ul style="list-style-type: none"> <li>• <b>Managing University Landscape and Infrastructure towards Green and Sustainable Campus</b> <b>Prof. Adi Zakaria Afiff</b>, Vice Rector of Finance, Logistics and Facilities, Universitas Indonesia</li> <li>• <b>The Challenges of Adopting BIM for Setting and Infrastructure Management of the University of Minho</b> <b>Prof. Paulo Jorge de Sousa Cruz</b>, Pro-Rector for Quality of Life and Infrastructures, Universidade do Minho, Portugal</li> <li>• <b>The University of São Paulo on the 2017's GreenMetric Ranking</b> <b>Prof. Patricia Iglecias</b>, Representative of Rector, University of Sao Paulo (USP), Brazil</li> <li>• <b>Green at Universiti Putra Malaysia: Cultivating the Green Campus Culture</b> <b>Prof. Dr. Ahmad Zaharin Aris</b>, Representative of Vice Chancellor, Universiti Putra Malaysia, Malaysia</li> </ul> <i>Question and Answer</i>	<b>Parallel Session 1 B</b> <b>Issues and Innovation in Managing Setting and Infrastructure</b> Venue: Room 2, Rectorate Building, Universitas Diponegoro  Chair: <b>Prof. Dr. Hadiyanto, S.T., M.T.</b> TaskForce Undip Ranking, Universitas Diponegoro, Indonesia <i>(3 presentations – 15 Minutes Each)</i> <ul style="list-style-type: none"> <li>• <b>Setting and Infrastructure at North Carolina Agricultural and Technical State University</b> <b>Prof. Godfrey A. Uzochukwu</b>, Representative of Chancellor, North Carolina Agricultural &amp; Technical State University, USA</li> <li>• <b>Greening Campus Experience: Moving towards Living Laboratory Action Plan</b> <b>Dr. Mohd Fadhil Md Din</b>, Representative of Vice Chancellor, Universiti Teknologi Malaysia (UTM), Malaysia</li> <li>• <b>Making an Urban University 'Green': Uniting Administration and Students towards Synergy</b> <b>Evgeny Zakablukovskiy, Ph.D.</b>, Representative of Rector, Minin University, Russia</li> </ul> <i>Question and Answer</i>
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<p>11:15 AM - 12:15 AM</p>	<p><b>Parallel Session 2 A</b> <b>Issues and Innovation in Managing Energy</b> Venue: Room 1, Rectorate Building, Universitas Diponegoro</p> <p>Chair: <b>Prof. Dr. Sudarto</b> Previous Rector, Universitas Diponegoro, Indonesia <i>(3 presentations – 15 Minutes Each)</i></p> <ul style="list-style-type: none"> <li>• <b><i>Creating a Low-carbon Campus in Chaoyang University of Technology (CYUT)</i></b> <b>Prof. Tao-Ming Cheng</b>, President, Chaoyang University of Technology, Taiwan</li> <li>• <b><i>The Unibo Energy Saving and Climate Change Approach</i></b> <b>Prof. Mirko Degli Esposti</b>, Deputy Rector, Università di Bologna, Italy</li> <li>• <b><i>UniTO Performance in UI GreenMetric Energy and Climate Change</i></b> <b>Prof. Marcello Baricco</b>, Vice-rector for Simplification, University of Turin, Italy</li> <li>• <b><i>Evaluation of Electricity Consumption and Carbon Footprint of UI GreenMetric Participating Universities using Regression Analysis</i></b> <b>Prof. Riri Fitri Sari</b>, Chairperson of UI GreenMetric World University Rankings</li> </ul> <p><i>Question and Answer</i></p>	<p><b>Parallel Session 2 B</b> <b>Issues and Innovation in Managing Energy</b> Venue: Room 2, Rectorate Building, Universitas Diponegoro</p> <p>Chair: <b>Prof. Patricia Iglecias</b> Representative of Rector, University of Sao Paulo (USP), Brazil <i>(3 presentations – 15 Minutes Each)</i></p> <ul style="list-style-type: none"> <li>• <b><i>Design and Operation Experience of Zero - Carbon Campus</i></b> <b>Xu Pan</b>, Vice President, Shandong Normal University - Lishan College, China</li> <li>• <b><i>Industrial Revolution 4.0: The Universiti Malaysia Sabah Perspective</i></b> <b>Dr. How Siew Eng</b>, Representative of Vice- Chancellor, Universiti Malaysia Sabah, Malaysia</li> <li>• <b><i>Expansion of Renewable Energy Resources and Energy-conscious Behavior at the University of Szeged</i></b> <b>László Gyarmati</b>, Representative of Rector, University of Szeged, Hungary</li> </ul> <p><i>Question and Answer</i></p>
<p>12:15 AM - 01:00 PM</p>	<p>Networking Lunch</p>	
<p>01:00 PM - 02:00 PM</p>	<p><b>Parallel Session 3 A</b> <b>Issues and Innovation in Managing Waste</b> Venue: Room 1, Rectorate Building, Universitas Diponegoro</p> <p>Chair: <b>Prof. Ir. Joni Hermana, M. Sc. ES., Ph.D.</b> Rector, Institut Teknologi Sepuluh Nopember, Indonesia <i>(4 presentations – 15 Minutes Each)</i></p> <ul style="list-style-type: none"> <li>• <b><i>Challenges of Sustainability Effors of Universities Regarding the Sustainable Development Goals: A Case Study in the University of Zanjan, Iran</i></b> <b>Prof. SeyedMohsen Najafian</b>, President, University of Zanjan, Iran</li> <li>• <b><i>Current Practices of Waste Management in Universitas Diponegoro Campus</i></b> <b>Prof. Yos Johan Utama</b>, Rector, Universitas Diponegoro, Indonesia</li> <li>• <b><i>Methodological Proposal for Environmental Aspects Evaluation in Higher Education Institution (HEI)</i></b> <b>Jose Herney Ramirez Franco</b>, Representative of Rector, National University of Colombia, Colombia</li> </ul>	<p><b>Parallel Session 3 B</b> <b>Issues and Innovation in Managing Waste</b> Venue: Room 2, Rectorate Building, Universitas Diponegoro</p> <p>Chair: <b>Prof. Dr. Ir. Tommy Ilyas, M.Eng.</b> Expert Member of UI GreenMetric <i>(5 presentations – 15 Minutes Each)</i></p> <ul style="list-style-type: none"> <li>• <b><i>Waste Water Treatment for Achieving Sustainable</i></b> <b>Prof. Dr. Ravik Karsidi MS</b>, Rector, Universitas Sebelas Maret, Indonesia</li> <li>• <b><i>BASE: A Sustainable Path for Milano-Bicocca University</i></b> <b>Prof. Matteo Colleoni</b>, Representative of Rector, Università degli Studi di Milano Bicocca, Italy</li> <li>• <b><i>Sustainability in Motion at UAO: Integrated Waste Management</i></b> <b>Prof. Mario A. Gandini</b>, Representative of Rector, Universidad Autonoma de Occidente, Colombia</li> <li>• <b><i>Toward Integrated and Sustainable Waste Management System in University of Malaya: UM Zero Waste Campaign</i></b></li> </ul>

		<p><b>Associate Professor Dr. Sumiani Yusoff</b>, Representative of Vice Chancellor, University of Malaya, Malaysia</p> <ul style="list-style-type: none"> <li>• <i>The Sustainability Efforts of Ton Duc Thang University in the South of Vietnam</i> <b>Dr. Ut V. Le</b>, Representative of President Ton Duc Thang University, Vietnam</li> </ul>
02:00 PM - 03:00 PM	<p><i>Question and Answer</i></p> <p><b>Parallel Session 4 A</b> <b>Issues and Innovation in Managing Water</b> Venue: Room 1, Rectorate Building, Universitas Diponegoro</p> <p>Chair: <b>Prof. Gunawan Tjahjono</b> Expert Member of UI GreenMetric (3 presentations – 15 Minutes Each)</p> <ul style="list-style-type: none"> <li>• <i>Water Conservation and Management Policies and Practices: Case study in Siam University</i> <b>Dr. Pornchai Mongkhonvanit</b>, President, Siam University, Thailand</li> <li>• <i>Designing Catchment Area for Water Resources Management in Institut Teknologi Sepuluh Nopember Campus</i> <b>Prof. Ir. Joni Hermana, M. Sc. ES., Ph.D.</b> Rector, Institut Teknologi Sepuluh Nopember, Indonesia</li> <li>• <i>Water Conservation and Water Recycling Program Implementations at University of Kashan</i> <b>Dr. Majid Monemzadeh</b>, Vice-Chancellor for Research, University of Kashan, Iran</li> </ul> <p><i>Question and Answer</i></p>	<p><b>Parallel Session 4 B</b> <b>Issues and Innovation in Managing Water</b> Venue: Room 2, Rectorate Building, Universitas Diponegoro</p> <p>Chair: <b>Dr. Maria Kirrane</b> Representative of President, University College Cork, Ireland (3 presentations – 15 Minutes Each)</p> <ul style="list-style-type: none"> <li>• <i>Universitas Padjadjaran Concern for Sustainable Water Resources from West Java to National and to the World</i> <b>Mr. Cipta Endyana</b>, Representative of Rector, Universitas Padjadjaran, Indonesia</li> <li>• <i>Dublin City University – Toward a Sustainable Campus</i> <b>Samantha Fahy</b>, Representative of President, Dublin City University, Ireland</li> <li>• <i>Tra Vinh University and Strategies Heading to Green Campus</i> <b>Nguyen Thi Mai Khanh</b>, Representative of Rector, Tra Vinh University, Vietnam</li> </ul> <p><i>Question and Answer</i></p>
03:00 PM - 04:00 PM	<p><b>Parallel Session 5 A</b> <b>Issues and Innovation in Managing Education</b> Venue: Room 1, Rectorate Building, Universitas Diponegoro</p> <p>Chair: <b>Mr. Junaidi, M. A.</b> Expert Member of UI GreenMetric (4 presentations – 15 Minutes Each)</p> <ul style="list-style-type: none"> <li>• <i>How Universities Can Work Together with Local Communities to Create a Green, Sustainable Future</i> <b>Prof. Yuhlong Oliver Su</b>, President, National Chi Nan University, Taiwan</li> <li>• <i>Accelerating the Transformation to a Green University: University of Bahrain Experience</i> <b>Dr. Naser Alnaser</b>, Representative of President, University of Bahrain, Bahrain</li> <li>• <i>The Internalization of Conservation Mindset in the Disruptive Era</i> <b>Prof. Dr. Fathur Rokhman, M. Hum</b>, Rector, Universitas Negeri Semarang, Indonesia</li> </ul>	<p><b>Parallel Session 5 B</b> <b>Issues and Innovation in Managing Education</b> Venue: Room 2, Rectorate Building, Universitas Diponegoro</p> <p>Chair: <b>Dr. Baiduri Widanarko</b> Expert Member of UI GreenMetric (4 presentations – 15 Minutes Each)</p> <ul style="list-style-type: none"> <li>• <i>Mainstreaming Sustainability Science to Enhance the Impacts of “Tridharma” in Higher Education Institution: IPB Lessons Learned and Future Direction</i> <b>Dr. Arif Satria</b>, Rector, Bogor Agricultural University, Indonesia</li> <li>• <i>NPUST’s Practice on Achieving Sustainable Development Goals</i> <b>Dr. Jik-Chang Leong</b>, Representative of President, National Pingtung University of Science &amp; Technology, Taiwan</li> <li>• <i>Bringing a Sustainable University in Turkey through Teaching, Research and Service</i> <b>Prof. M Pinar Mengüç</b>, Representative of Rector, Ozyegin University, Turkey</li> <li>• <i>RTU Approach to Sustainable Development: Governance and Measuring Impact</i></li> </ul>

	<ul style="list-style-type: none"> <li>• <b>How the Environmental Planning of Federal University of Lavras Impact Higher Education</b> <b>Dr. Marcio Machado Ladeira</b>, Representative of Rector, Universidade Federal de Lavras – UFLA, Brazil</li> </ul> <p><i>Question and Answer</i></p>	<p><b>Juris Iljins</b>, Representative of Rector, Riga Technical University, Latvia</p> <p><i>Question and Answer</i></p>
04:00 PM - 04:15 PM	Coffee Break	
04:15 PM - 05:15 PM	<p><b>Panel Session 6</b> <b>Issues and Innovation in Managing Transportation</b> Venue: Room 1, Rectorate Building, Universitas Diponegoro</p> <p>Chair: <b>Prof. Mirko Degli Esposti</b> Deputy Rector, Universita di Bologna, Italy (2 presentations – 15 Minutes Each)</p> <ul style="list-style-type: none"> <li>• <b>Tackling Energy, Transportation and Sustainability on Campus</b> <b>Dr. Des Fitzgerald</b>, President, University of Limerick, Ireland</li> <li>• <b>Green Transportation System to Promote Sustainable Lifestyle in Chulalongkorn University</b> <b>Associate Professor Boonchai Stitmannathum, D.Eng.</b>, Vice President for Administration, Chulalongkorn University, Thailand</li> <li>• <b>Good Mobility Practices at Pontificia Universidad Javeriana (Transportation)</b> <b>Alexandra Leal Castellanos</b>, Representative of Rector, Pontificia Universidad Javeriana, Colombia</li> <li>• <b>Reengineering Sustainability at Universiti Tun Hussein Onn Malaysia (UTHM): Travel &amp; Transportation</b> <b>Dr. Noralfishah Sulaiman</b>, Representative of Vice-Chancellor, Universiti Tun Hussein Onn Malaysia, Malaysia</li> </ul> <p><i>Question and Answer</i></p>	
05:15 PM - 05:20 PM	<p>Closing Remarks</p> <ul style="list-style-type: none"> <li>• <b>Prof. Yos Johan Utama</b>, Rector of Diponegoro University</li> <li>• <b>Prof. Riri Fitri Sari</b>, Chairperson of UI GreenMetric</li> <li>• <b>Report of University Collage Cork, Ireland (Host of IWGM 2019)</b></li> </ul>	
05:20 PM - 06:00 PM	Campus Tour	
07:00 PM - 09:00 PM	Dinner (hosted by Governor of Central Java) Venue: Wisma Perdamaian Building	
09:00 PM	Transfer to Hotel	
<b>DAY 3: 10 APRIL 2017 – TUESDAY</b> <b>Complimentary Tour</b>		
06:00 AM - 07:00 AM	Registration at Hotel Lobby	
07:00 AM - 09:30 AM	Transfer to Borobudur Temple	
09:30 AM – 12:00 AM	Exploring Borobudur Temple	
12:00 AM – 13:30 PM	Lunch Venue: Manohara Hotel	
13:30 PM – 17:00 PM	Transfer to Hotel/Semarang Airport	



