



# CONFERENCE SUMMARY

## **The Lost in Translation Conference**

Identifying ways universities, industry and government can collaborate to promote innovative research and productive interactions.

**Wednesday, 4 March 2015**

University Club Universitas Gadjah Mada  
Yogyakarta





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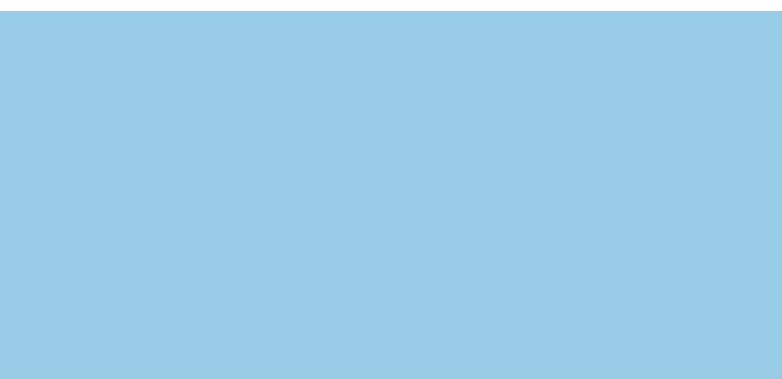
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# CONFERENCE SUMMARY

The Lost in Translation Conference: Identifying ways universities, industry and government can collaborate to promote innovative research and productive interactions.

Yogyakarta, 4 March 2015

## 1. PREFACE

### BACKGROUND

This conference was initially proposed prior to the inauguration of the new administration by a number of Indonesian UK alumni working in government, industry and higher education. It was originally intended as a forum in which the alumni network could explore collaborative opportunities. With the new administration's renewed commitment to promoting research, a more open forum in which practical pathways within specific priority issue-areas might be addressed was proposed.

Placing commercialisation, applied and translational research at the top of his agenda, the Minister for Research, Technology and Higher Education, Muhammad Nasir, has called on universities, research institutes and industry to work more closely together to undertake innovative research that is both in the public interest and the mutual interest of both universities and businesses. Minister Nasir also called on the private sector to make better use of research that is produced in universities and research institutes to strengthen domestic production.

Currently Indonesia invests a relatively small 0.1 % of GDP in research and development - significantly lower than other countries in the region such as Thailand and Malaysia, about 80% of which comes from government funding and 20% from the private sector. Minister Nasir stated recently that ideally, research investment would be a minimum of 1% of GDP, but that in the first instance, the government will set a target of 0.5% of GDP invested in research by 2016. In order to meet that target, Minister Nasir announced that the government will help to forge links with the private sector in order to encourage industry to invest in research in higher education. To that end, the Minister has already brokered an agreement between the State Universities Rectors Forum and the Association of Indonesian Employers (APINDO).

Although research commissioned by the ACDP in 2013 suggests that academia, business and government remain separate sectors in Indonesia with very few examples of productive interaction in which knowledge is jointly developed and shared, Minister Nasir's initiative bringing the Rectors Forum and APINDO together reflects one of the ACDP report's recommendations that government provide more structured opportunities for universities and the private sector to meet. Moreover, the 'triple helix' concept is not new to Indonesia and good examples of productive collaborative working exist, particularly at regional and district level, including Yogyakarta where the conference will be held.

Minister Nasir has also asked Indonesia's international partners, including the UK, to support Indonesia's research plans by sharing experiences – challenges and solutions, in creating an innovative and applicable research environment in line with the new administrations' ambitions for producing innovative, applied and translational research through closer collaboration between universities and the private sector.

By bringing together key stakeholders from government, academia and industry as well as a number of international partners – including a delegation of thirteen senior UK higher education leaders with experience in university and industry collaboration, the conference aims to:

- Provide a forum for sharing practical experience in forging productive relationships between universities, industry and government
- Identify some of the key challenges and opportunities within the Indonesian context, including successful partnerships between universities, research institutes and the private sector
- identify collaborative research translation projects and potential research consortia, including international consortia
- Identify opportunities for Newton Funding

The conference will have a focus on three priority research areas as identified by the Indonesian government, namely:

- Energy
- Agriculture and food security
- Maritime infrastructure

### CONFERENCE OVERVIEW

The conference took place at University Club Universitas Gadjah Mada, Yogyakarta on 4 March 2015 and was jointly organised by British Council Indonesia, the Indonesian Ministry of Research, Technology and Higher Education and Universitas Gadjah Mada.

This conference was initially proposed prior to the inauguration of the new administration by a number of Indonesian UK alumni working in government, industry and higher education including Prof Dwikorita Karnawati (Rector of Universitas Gadjah Mada) and Syahrul Aminullah (Deputy Assistant for Science and Technology Investment at the Ministry of Research, Technology and Higher Education). It was originally intended as a forum in which the alumni network could explore collaborative opportunities. With the new administration's renewed commitment to promoting research, a more open forum in which practical pathways within specific priority issue-areas might be addressed was proposed.

A number of UK Alumni namely Andrew Sutedja, Danu Wicaksana, Enda Ginting, Yudi Hadori and Roy Massie helped British Council in designing the content and programme for the conference.

The Lost in Translation: Identifying ways universities, industry and government can collaborate to promote innovative research and productive interactions was held in response to Minister Nasir's plans for research in Indonesia, his interest in the international experience and the UK alumni's proposal.

The 80 participants comprised of UK Alumni, representatives of Indonesian ministries, higher education institutions, research institutions, private sectors and business association as well as 13 UK Vice Chancellors and Pro Vice Chancellors who gathered to share practical experience in forging productive relationships between universities, industry and government.

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## 2. RECOMMENDATIONS

The sharing session in the afternoon provided a more focused forum for the participants to discuss issues related to on three priority research areas as identified by the Indonesian government, namely energy, agriculture and maritime infrastructure.

The summary of the recommendations and discussions from the three parallel sessions is as follows:

### Parallel D - Energy

Chair : Ir. Tutuka Ariadji, MSc, Ph.D, Vice Dean

for Academic Affairs of Faculty of Mining and Petroleum Engineering, Institut Teknologi Bandung

The session discussed Indonesia's oil and gas production profile and the need for triple helix collaboration to support the national policy on energy mix.

Against a backdrop of rapidly growing oil and gas production and exports, the Indonesian government introduced fuel subsidies in the late 1950s to stimulate economic development. However, since the country ceased to be a net exporter of oil in 2004, increasing demand for oil products and political pressure to maintain subsidies has meant that government expenditure on subsidies has steadily escalated. The session argued that increasing the production and consumption of natural gas will provide the much-needed momentum to cut Indonesia's reliance on oil and empower Joko Widodo administration to tackle the challenges of reconfiguring its energy mix and establishing sustainable energy policies.

The session recommended a stronger cooperation with UK universities in:

1. Improving depleted oil fields (e.g. University of Aberdeen, Heriot Watt University)
2. Broadening energy business beyond the energy area such as social, environment, environmental technology (e.g. University of Newcastle, University of Aberdeen)
3. Developing small scale energy power and environment friendly such as solar energy, waste energy (biogas) (e.g. Warrick University)
4. Developing Integrated Green City: energy, waste, people (e.g. Loughborough University).

### Parallel E – Agriculture

Chair: Professor Eni Harmayani

Professor in Food Security, Universitas Gadjah Mada

The session was intended to provoke robust debate and frank information sharing and to provide a platform for the formation of strategic partnerships and collaborations especially with the UK universities on research in agriculture and food security.

The participants discussed the following key issues on research in agriculture and food security:

1. Climate change response
2. Biodiversity agriculture practice

3. Self sufficiency
4. Food and nutrition & security & safety
5. Global commodity market
6. How to improve of marginal land using technology farming system
7. Organic farming
8. Farmers welfare
9. Water security
10. Forest management unit
11. Chemistry
12. Policy and supply change

Follow up and recommendations:

1. Newton Fund can be used to mobilise experts from UK and Indonesia to work on certain topics. And to address global challenges with specific topics.
2. Harper Adams's recommendation in the area of agriculture and animal nutrition.

Universities collaboration possibilities:

- University of Birmingham: Forestry, policy issue, crop improvement
- Northumbria University: Nutrition and Food security

### Parallel F - Maritime

Chair : Professor Mukhtasor

Professor in Marine Renewable Energy, Institut Teknologi 10 Nopember

Indonesia's priorities on maritime infrastructure as discussed by participants include :

1. Deep Sea Technology
2. Marine Tourism
3. Territory Development and Awareness
4. Biotechnology especially sea resources
5. Developing Eco Ports
6. Developing blue economy with the purpose of modernising ports in Indonesia and triggering investments to help developing the city

Accordingly, the participants agreed that there is a need to design specific projects, such as to translate the research-based results into industry-based activities. A case in point, the two decade-investment in the UK (1993-2013) has been highly successful. We can learn from the existing program in the UK and get it scaled up here in Indonesia.

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## 3. CONFERENCE CONTENTS

### PLENARY SESSION

#### *Welcome Address*

Teresa Birks, British Council Indonesia's Director Education and Society, opened the conference by welcoming all participants that comprised of representatives from Indonesian higher education institutions, Indonesian Ministries, industry and business association, UK alumni and 13 UK Vice Chancellors and Pro Vice Chancellors.

Teresa stressed that the conference would be the forum for the participants to engage robust debates on innovative energy, agriculture and food security, as well as maritime infrastructure and seed solutions and provide outcomes, alongside maximum networking opportunities between Indonesia and UK.

Professor Dwikorita Karnawati, Rector of the host university – Universitas Gadjah Mada later thanked the participants who attended the conference. She affirmed that the conference is timely given the mandate from the Minister to synergise university, government and industry collaboration in research translation. Professor Dwikorita stated that UGM has gone further into a socio-entrepreneurial university. It means that it intends to directly apply knowledge into the society, which can generate profits to the society. The income-generation activities drawn from products are of great importance for the university.

The importance of the collaboration among the government, academicians and industries in accelerating development in Indonesia was the message conveyed by Mrs. Indaryati who represented Sri Paduka Paku Alam IV, Vice Governor of Yogyakarta.

The keynote speech was delivered by Dr. Mulyanto, deputy for Institutional Science and Technology, who represented the Minister of Research, Technology and Higher Education. He stated that the Ministry was delighted to take an active part working together in partnership with the British Council Indonesia and Universitas Gadjah Mada in organising the conference. The Ministry has always welcomed initiatives that further strengthen research and research collaboration between Indonesia and the UK – an initiative that is very much in line with the Government of Indonesia's strategy and attempt to foster innovative research and nurture an advanced higher education society.

He stressed that Indonesia needs to ensure stronger, more effective, coherent and purposeful collaboration between the three important spheres: Academia, Business and Government to enhance our national competitiveness and ensure our contribution to help solve national and international challenges and as part of the global community. The Government through the Ministry of Research, Technology and Higher Education are ready to support the creation of conducive environment that enables the three sectors to work harmoniously.

#### *Plenary session: Mechanisms supporting sustained collaboration between universities/research institutes and industry*

The plenary session discussed mechanisms supporting sustained collaboration between universities/research institutes and industry and was chaired by Dr. I Made Andi Arsana, Head of International Office Affairs, Universitas Gadjah Mada.

The speakers in this session were the representative of government, academia, and industry. They were Vivienne Stern (Director UK HE International Unit), Professor Andrew Wathey (Vice Chancellor, Northumbria University), Professor Anas M. Fauzi (Vice Rector for Research and Collaboration, Institute Pertanian Bogor), Suprayitno (Chairman, Association for Indonesian Entrepreneurs – APINDO; Jakarta Province) and Emil Milawarma, CEO, PT. Bukit Asam.

Vivienne Stern stated that The Triple Helix as a concept is recognised to have a transformative effect on industry performance, generating accelerated knowledge and technology transfer between the public and the private sector and systemic change. In the recent years we have observed a shift in the approach of UK universities – as active orchestrators of Triple Helix Relationships, pursuing economic development through innovation, institutional changes through community and participative practices, and industry transformations through collaborative public-private funding and university – industry interactions. Their presence here is to share what has been learned and practiced. Professor Wathey added that there are several mechanisms needed to understand the quality of research and collaboration between university and industry. They include (a) most functions inside universities, (b) public and industry investment, (c) structures operate at programme level, (d) not just research – also students, and (e) non-linear pipeline models.

Professor Anas echoed Professor Wathey's argument on supporting sustained collaboration between universities/research institutes and industry. In IPB some regulations have been established to manage some amounts of money obtained from the government. For example, regulations on patent and diversifying types of work: palm-based research and products, vaccine product, joint-research with Yanmar, Posco Korea to make use of CO2 to feed algae, and sale products outlets.

Suprayitno from APINDO stated that the degree of competitiveness of Indonesia is low. In terms of the money spent for research and development (R&D) among business people, Indonesia is the lowest in Asia Pacific. The capacity of R&D is still low. We have the structure, but not enough people to work on it. In response to this, APINDO is currently working with 10 universities and the Ministry of Research, Technology and Higher Education to downstream the research.

Emil Milawarman, CEO of PT Bukit Asam (PTBA), shared the lesson of how PTBA is now the best performing coal mining in Indonesia. He mentioned four principles that have been successfully implemented at PTBA, they include (a) good will to develop the country, (b) internal management system, (c) good mining practice, (d) ecological



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protection. PTBA also creates inter-institutional collaborations, involving both governmental and non-governmental institutions to work together.

## PARALLEL SESSIONS

*Parallel A - What do academics and industrialists need to learn about each other and how can such hybrid perspectives be encouraged?*

Speakers:

- Professor Judith Lamie, Deputy Vice-Chancellor, International, Middlesex University
- Professor Ocky Karna Radjasa, Professor of Marine Coral Reef Study, Director Research and Community Service Institute, Universitas Diponegoro (UNDIP)
- Hari Dendi, Kadin Yogya (Yogya Trade and Financial Board, Triple Helix Programme Chief Adviser)
- Dr Warsito Purwo Taruno, CEO, CTECH Laboratories

**Moderator :** Enda Ginting, UK alumnus, MSc in Economic, Finance and Management, The University of Bristol, UK

In this session all speakers agreed that complex and competitive environment requires collaboration as there is a lack of general research funds for Indonesian universities and there is not enough research that be used by business and industry so they cannot maximize their research performance. In response to this condition, the panel suggested that:

- The proportional balance of both theoretical and practical features from higher education institutions is needed
- We need to challenge the academicians to address the current issues in the community
- We also need to develop multi-financing and multi-channels collaboration.

*Parallel B - What new infrastructure is needed in order to foster university-industry links?*

Speakers :

- Wisnu Sardjono Soenarso, Deputy Assistant, Investment for Sciences and technology, Ministry of Research, Technology and HE
- Dr Hargo Utomo MBA., Director, Directorate for Business Development and Incubation, Universitas Gadjah Mada
- Professor David Taylor, Pro-Vice Chancellor – International, University of Huddersfield
- Dr drh Maharani MSI, Head of National Research Translation and Harmonisation, PT Bio Farma

**Moderator :** Andrew Sutedja, Chairman, Young Professional Group, British Chamber of Commerce.

The session explored the following key issues :

- Collaboration between industry and university as the university – industry research collaboration is one of the factors affecting the competitiveness of a nation
- Government's target
- RISTEK-DIKTIK Programme
- Science Techno Park development requirement, focusing on ICT, MEDICINE, BIOTECH, AGRO TECH ETC.
- International partnership and
- Building trust and strong commitment amongst parties to implement common strategic goals

*Parallel C - Teaching innovation and entrepreneurship: how can universities, industry and government encourage the next generation*

Speakers:

- Dr Pariatmono, Deputy Director, Science and Technology Utilisation, Ministry of Research, Technology and HE
- Professor Mukhtasor, Professor in Marine Renewable Energy, Institut Teknologi 10 Nopember
- Professor Jan Palmowski, Pro-Vice Chancellor (Post Graduate and Transnational Education), University of Warwick
- Dr Jess Fernandez, Programme Deputy Director, SEAMEO BIOTROP

**Moderator :** Dr Ika Dewi Ana, Director, Center of Academic Innovation and Policy, Universitas Gadjah Mada

The session explored the following key issues:

- Translational Process Paradigm
- It takes an estimated average of 17 years for only 14% of new scientific discoveries to enter day-to-day clinical practice," (Westfall et al., 2007)
- The gap between university and global needs e.g., academic culture (theoretical/normative, academic research/nonprofit, hierarchy-oriented based, no administrative autonomy) vs corporate culture (market driven, profit oriented, public service oriented, practical oriented administration).

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## 4. LIST OF PARTICIPANTS

No	Institutions	Name	Position
1	APPLI - Asosiasi Pengendali Pencemaran Lingkungan Indonesia	Dian Anggara	Secretary General
2	APPLI - Asosiasi Pengendali Pencemaran Lingkungan Indonesia	Edi Wahyudi	
3	Asosiasi Pengusaha Indonesia Dewan Pengurus Provinsi DKI Jakarta	Drs. Soeprayitno	Chairman
4	ATMI Solo	T. Agus Sriyono	Director
5	ATMI Solo	U. Bram A.	U. Bram A.
6	Bandung Institute of Technology (ITB)	Dr Tutuka Ariadji, MSc	Vice Dean of Academic Affairs
7	Binus	Dr. Ir. Ingrid S. Surono, M.Sc	Vice Dean of Academic Affairs
8	Bio Farma	Dr. drh Maharani Msi	Head of National research Translation and Harmonisation
9	Bizcomm	Arlan Setiawan	CEO
10	Bogor Agricultural Institute (IPB)	Prof. Dr. Ir. Anas Fauzi M.,M.Eng	Vice Rector for Research and Cooperation
11	Bournemouth University	Dr. Sonal Minocha	Pro-Vice Chancellor - Global Engagement
12	British Chamber of Commerce	Andrew Sutedja	Chairman - Young Professional Group
13	CEES Sepuluh Nopember Institute of Technology	Prof. Dr. Mukhtasor	Executive Director Professor in Marine Technology, Former member of National Energy Council (2009-2014)
14	Conventry University	Augviera	Country Manager
15	Coventry University	Prof. David Pilsbury	Pro-Vice-Chancellor for International Development
16	CTECH Laboratories	Dr. Warsito Purwo Taruno	CEO
17	Hari Dendi	Coordinator	Yogya Chamber of Commerce
18	Harper Adams University	Prof. Peter Mills	Deputy Vice-Chancellor
19	IABA (Indonesian Association of British Alumni)	Endro Gunawan	Vice Chair
20	IABA	Tri Wahyu Widodo	Vice Chair
21	IABA	Suryoputro	Member
22	Indonesia Mengajar	Israr Ardiansyah	Education and Sustainable Development, Advisor

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23	Indonesian Coffee & Cocoa Res Institute	Dr. John Bako Baon, MSc	Chairman
24	Indonesian Coffee & Cocoa Res Institute	Heri Purwanto	Member
25	International Unit	Vivienne Stern	Director
26	International Unit	Joseph Taylor	Policy Advisor
27	Middlesex University	Professor Judith Lamie	Deputy Vice-Chancellor
28	Ministry of Research, Technology and Higher Education (KEMRISTEKDIKTI)	Annisa Pranowo	Head of section for Facilitation of International Publication
29	Ministry of Research, Technology and Higher Education (KEMRISTEKDIKTI)	Yudho Baskoro Muriadi	Deputy Director for Evaluation on Institutional Competency
30	Ministry of Research, Technology and Higher Education (KEMRISTEKDIKTI)	Ir Wisnu Sardjono Soenarso, M.Eng	Deputy Assistant - Investment for S&T
31	Ministry of Research, Technology and Higher Education (KEMRISTEKDIKTI)	Ir. Ahmad Dading Gunadi, MA	Deputy Director for Community Science and Technology
32	Ministry of Health	Dr. Roy Massie	Litbang
33	Ministry of Research, Technology & HE	Dr. Mulyanto M.Eng	Deputy Institutional Sciences & Technology
34	Ministry of Research, Technology & HE	Syahrul Aminullah	Head of Division, S&T Network Investment
35	Northumbria University	Professor Andrew Wathey	Vice Chancellor
36	PT Bukit Asam (Persero) TBK - Company	Milawarma	CEO
37	PT Bukit Asam (Persero) TBK - Company	Riza Fahmi	Company Secretary
38	Queen Mary University London	Prof. David Sadler	Vice Principal – International
39	Seameo Biotrop	Dr.Jesus C.Fernandez	Deputy Director for Programme
40	STIKES Ngudi Waluyo	Dr. Sugeng Maryanto	
41	The Indonesian Institute of Sciences/ Lembaga Ilmu Pengetahuan Indonesia (LIPI)	Lutfah Ariana	Researcher
42	The Indonesian Institute of Sciences/ Lembaga Ilmu Pengetahuan Indonesia (LIPI)	Nurul Taufiq Rochman	Researcher
43	The Indonesian Institute of Sciences/ Lembaga Ilmu Pengetahuan Indonesia (LIPI)	Bambang Prihandoko	Researcher
44	UII - Universitas Islam Indonesia	Hangga Fathana	Director of Marketing, Collaboration and Alumni
45	UK Alumni	Enda Ginting	Policy Analyst
46	Universitas Diponegoro, Semarang	Prof. Ocky Karna Radjasa	Head of Research and Community Service Institute
47	Universitas Diponegoro, Semarang	Dr. Tri Retnaningsih Soeprbowati	Senior Researcher of Organical Chemistry



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48	Universitas Gadjah Mada (UGM)	Prof. Dwikorita Karnawati	Rector
49	Universitas Gadjah Mada (UGM)	Dr. Ir. Edia Rahayuningsih	Chemical Engineering
50	Universitas Gadjah Mada (UGM)	Dr. Ir. Muhammad Nur Cahyanto, M.Sc.	Agriculture Technology Faculty
51	Universitas Gadjah Mada (UGM)	Dr. Ir. Pudji Hastuti, M.S.	Agriculture Technology Faculty
52	Universitas Gadjah Mada (UGM)	Dr. Ir. Tyas Utami, M.Sc.	Agriculture Technology Faculty
53	Universitas Gadjah Mada (UGM)	Erwan Agus	Dean of Political and Social Science Faculty
54	Universitas Gadjah Mada (UGM)	Prof Dr Sri Rahardjo	Research Directorate
55	Universitas Gadjah Mada (UGM)	Prof. Dr. Kuswandi	Pharmacy Faculty
56	Universitas Gadjah Mada (UGM)	Ir. Anjal Anie Asmara, M.Si.	Hydrologist, Agriculture Faculty
57	Universitas Gadjah Mada (UGM)	Ir. I Made Suardjaja, M.Sc., Ph.D.	Engineering Faculty
58	Universitas Gadjah Mada (UGM)	Nazrul Effendy, Ph.D.	Engineering Faculty
59	Universitas Gadjah Mada (UGM)	Prof. Dr. Ir. Siti Subandiyah, M.Agr. Sc.	Agriculture Faculty
60	Universitas Gadjah Mada (UGM)	Prof. Ir. Made Bendiyasa, M.Sc., Ph.D.	Engineering Faculty
61	Universitas Gadjah Mada (UGM)	Prof. Ir. Sigit Supadmo Arif, M.Eng., Ph.D.	Agriculture Technology Faculty
62	Universitas Gadjah Mada (UGM)	Dr. Ika Dewi Ana	Associate Professor in Dental Biomedical Sciences
63	Universitas Gadjah Mada (UGM)	Dr. Hargo Utomo M.B.A.	Director, Directorate of Business Development and Incubation
64	Universitas Gadjah Mada (UGM)	Dr. I Made Andi Arsana	Head of International Office Affairs
65	Universitas Gadjah Mada (UGM)	Dr. Ir. Aswati Mindaryani, M.Sc.	Chemical Engineering
66	Universitas Gadjah Mada (UGM)	Dr. Paripurna, SH	Vice Rector for Cooperation and Alumni
67	Universitas Gadjah Mada (UGM)	Dr. Poppy S Winanti	Lecturer, International Relations, Faculty of Political and Social Sciences
68	Universitas Gadjah Mada (UGM)	Prof. dra. Agnes Endang Sutariningsih Soetarto, M.Sc., Ph.D.	Lecturer - Microbiology
69	Universitas Gadjah Mada (UGM)	Prof. Eni Harmayani	Professor of Food Technology

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70	Universitas Gadjah Mada (UGM)	Professor. Langkah Sembiring, B.Sc., M.Sc., Ph.D.	Professor in Microbiology
71	Universitas Gadjah Mada (UGM)	Triwibowo Yuwono	Fac of Agriculture
72	Universitas Gadjah Mada (UGM)	Edi Suryanto	
73	Universitas Gadjah Mada (UGM)	Daud	Faculty of Humanity
74	Universitas Gadjah Mada (UGM)	Sigit Priyanto	Lecturer of Civil and Environmental Engineering
75	Universitas Gadjah Mada (UGM)	Dr Danang Sri Hadmoko	Director - International Office
76	Universitas Islam Indonesia (Indonesian Islamic Uni (UII))	Izzati, S.T., M.Sc., Ph.D.	Faculty of Industrial Technology
77	Universitas Kristen Duta Wacana	Winta Adhitia Guspara	
78	Universitas Muhammadiyah Yogya	Professor Bambang Cipto	Rector
79	Universitas Muhammadiyah Yogya	Indira Prabasari	Director of Cooperation Bureau
80	Universitas Pembangunan Nasional "Veteran" Yogyakarta	Raden Roro Rukmowati Brotodjo (Ir., M.Agr. PhD)	Head of International Office
81	Universitas Pembangunan Nasional "Veteran" Yogyakarta	Dr. Ir. M.Nurcholis, M.Agr	Vice Rector for Networking and Communication (VR3)
82	Universitas Sanata Dharma, Yogya	Dr. Anastasia Rita Widiarti, M.Kom.	Lecturer in Informatics Engineering
83	Universitas Sanata Dharma, Yogya	Drs. J. Eka Priyatma, M.Sc., Ph.D	Rector
84	Universitas Sanata Dharma, Yogya	A. Prasetyadi	Dean of Faculty of Science and Technology
85	University of Aberdeen	Prof. Seth Kunin	Vice Principal – Internationalisation
86	University of Birmingham	Prof. John Heath	Pro-Vice Chancellor (Estates and Infrastructure)
87	University of Huddersfield	Professor David Taylor	Pro Vice-Chancellor - International
88	University of Leicester	Prof. Paul Boyle	President & Vice-Chancellor
89	University of the West of Scotland	Prof. Craig Mahoney	Principal & Vice-Chancellor
90	University of Warwick	Professor Jan Palmowski	Pro Vice-Chancellor (Postgraduate & International Education)
91	USAID	Jenna Jadin Ph.D	Climate Change Specialist

# PROGRAMME AGENDA

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## WELCOME British Council



It is my pleasure to welcome a delegation of 15 senior UK Higher Education leaders led by the UK HE International Unit from a range of UK universities and representatives up to thirty Indonesian universities to pursue areas of common interest for closer collaborations during a five-day tour of Indonesia that will take them to Jakarta, Yogyakarta and Surabaya, 2-6 March 2015.

The visit is a follow-up to the Global Education Dialogue: The Power of Consortia, held in Medan in November 2014 by the British Council in partnership with Dikti and the Indonesian Vice-Rector Forum for Internationalisation. Thirty-seven UK universities expressed an interest in joining the delegation – a significant number that demonstrates the UK Higher Education sector's commitment to working more closely with Indonesian counterparts.

We are also pleased to welcome the UK delegates and the Indonesian government officials, Indonesian university leaders, leading researchers, representatives from the private sector and UK alumni from different part of Indonesia to participate in the British Council's Lost in Translation Conference: Identifying ways universities, industry and government can collaborate to promote innovative research and productive interactions held in partnership with the Ministry of Research, Technology and Higher Education and Universitas Gadjah Mada (UGM), Yogyakarta.

I am most grateful to our partners, the UK HE International Unit, the Ministry of Research, Technology and Higher Education of the Republic of Indonesia in helping to arrange this visit. We are also indebted to our Indonesian HE partner, Institut Teknologi Sepuluh Nopember (ITS), Surabaya that has agreed to host the networking meeting.

Furthermore, we are also most grateful to Universitas Gadjah Mada who are hosting the Lost in Translation Conference and without whom this important event would not have been possible, once again with the support of the Ministry of Research, Technology and Higher Education.

British Council Indonesia aims to help foster collaboration between Indonesian and UK universities in research, teaching, course delivery, staff development and student mobility. We hope this visit is a small step on the road to a long and mutually beneficial relationship.

Whether it is forming new partnerships, offering dual/joint degrees, joint-research or looking at faculty exchanges and leadership development, an evolution within international strategies has taken place and we are seeing this very strongly in Indonesia and in the UK.

Through sharing knowledge and experience, it is hoped that the participants from both UK and Indonesian Higher Education sector will be able to share how their institutions engage internationally and we also hope that through these discussions that long-term new alliances and partnerships will also be formed.

The British Council in collaboration with the UK HE International Unit is also planning an inward delegation of senior Indonesian Higher Education and Government leaders in May/June 2015.

### **Teresa Birks**

Director Education and Society  
British Council Indonesia



# FOREWORD

## Universitas Gadjah Mada

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Assalamualaikum Wr. Wb

Greeting from Universitas Gadjah Mada. It is a great pleasure for us to collaborate with the British Council and the Ministry of Research, Technology and Higher Education to jointly organise this conference. The joint organiser decided a 'catchy' title for this conference: "Lost in Translation: Identifying activities for universities, industries, dan government to collaborate on in order to improve innovative research and productive interaction".

It has been long known that universities in Indonesia have, in general, been busy conducting researches in various disciplines. However, only a limited number of those researches have been successfully translated into actionable policy and consumable products. Limited and yet to be successful collaboration among universities, industries, and government, has been deemed as the key issue in this matter. In response to this, the current conference focuses on promoting and enhancing collaboration among those three parties.

Lost in translation is what usually happens in the conversion process from laboratorial-scale researches into industrial-scale productions. Universities often fail to understand the need of the society and industries so their researches do not necessarily address issues faced by the society and industries. On the other hand, due to limited interaction and communication, industries also often fail to effectively communicate their needs to universities. To make the situation worse, governments, in most cases, do not play their role as they should have. In short, interaction among the aforementioned three parties can still be improved. Here is where this kind of conference can still find its relevance.

For Universitas Gadjah Mada, this conference is timely and highly significant for it is in line with our aspiration to be a socio-entrepreneurial university. We have always believed in quality researches and publications. However, we also believe that quality researches and publication should be translated into either actionable policy or even commercial consumable products. We believe that this conference will provide us with opportunities to improve collaboration among relevant parties for fruitful results.

On behalf of Universitas Gadjah Mada, I warmly welcome all the participants of the Lost in Translation Conference to Yogyakarta and to our university. We are looking forward to discussing intensively issues on the interaction among universities, industries and governments. In particular, we are going to identify activities for the three parties to collaborate on in order to improve innovative research and productive interaction. I wish you all good luck and have a productive discussion.

Assalamualaikum Wr. Wb.

**Prof. Ir. Dwikorita Karnawati, M.Sc., Ph.D**

Yogyakarta, 1 March 2015

Rector of Universitas Gadjah Mada

## FOREWORD

# Ministry of Research, Technology and Higher Education

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On behalf of the Ministry of Research, Technology and Higher Education, Republic of Indonesia, it is my great pleasure to welcome the delegation of senior representatives from 15 UK Higher Education institutes and the UK HE International Unit to Indonesia, 2-6 March 2015.

The Ministry of Research, Technology and Higher Education is also delighted to take an active part working together in partnership with the British Council Indonesia in facilitating this mission.

We welcome initiatives that further strengthen research and research collaboration between Indonesia and the UK – an initiative that is very much in line with the Government of Indonesia's strategy and attempt to foster innovative research and nurture an advanced higher education society.

By sharing experience in creating a research ecosystem that produces innovative, applied and translational research through closer collaboration between universities and the private sector, we hope to improve better quality of Higher Education in Indonesia. I believe there will be many things that both countries, Indonesia and UK, can learn from each other through the meetings.

To enhance our national competitiveness and ensure our contribution to help solve national and international challenges and as part of the global community, we need to ensure stronger, more effective, coherent and purposeful collaboration between the three important spheres: Academia, Business and Government. Placing applied research and commercialization as one of the Ministry of Research, Technology and Higher Education's top priorities, I have called on universities, research institutes and industry to work more closely together to undertake innovative research that is both in the public interest and the mutual interest of both universities and businesses.

In this spirit, thus, the Lost in Translation Conference: Identifying ways universities, industry and government can collaborate to promote innovative research and productive interactions, organised by the British Council in partnership with the Ministry of Research, Technology and Higher Education and Universitas Gadjah Mada (UGM) is a timely and strategic opportunity to help move the agenda forward.

I sincerely hope that the discussion and deliberations will be fruitful, formulating further international cooperation, partnerships, and networks.

**Professor Dr. Muhammad Nasir**

Minister

Ministry of Research and Technology and Higher Education

Republic of Indonesia

# Term of Reference

## British Council in partnership with the Ministry of Research, Technology and HE and Universitas Gadjah Mada

### Lost in Translation :

Identifying ways universities, industry and government can collaborate to promote innovative research and productive interactions

**Wednesday 4th March, Universitas Gadjah Mada, Yogyakarta**

## INTRODUCTION

Placing commercialisation, applied and translational research at the top of his agenda, Indonesia's Minister for Research, Technology and Higher Education, Muhammad Nasir, has called on universities, research institutes and industry to work more closely together to undertake innovative research that is both in the public interest and the mutual interest of both universities and businesses.

Minister Nasir has also requested that Indonesia's international partners, including the UK, support Indonesia's research ambitions by sharing their experience in creating a research ecosystem that produces innovative, applied and translational research through closer collaboration between universities and the private sector.

In response to the Minister Nasir's plans, the British Council in partnership with the Ministry of Research, Technology and HE and Universitas Gadjah Mada are pleased to present: **Lost in Translation: Identifying ways universities, industry and government can collaborate to promote innovative research and productive interactions.**

## AIMS

By bringing together key stakeholders from government, academia and industry as well as a number of international partners – including a delegation of thirteen senior UK higher education leaders with experience in university and industry collaboration, the conference aims to :

- Provide a forum for sharing practical experience in forging productive relationships between universities, industry and government
- Identify some of the key challenges and opportunities within the Indonesian context, including successful partnerships between universities, research institutes and the private sector
- Identify collaborative research translation projects and potential research consortia, including international consortia
- Identify opportunities for Newton Funding

The conference will have a focus on three priority research areas as identified by the Indonesian government, namely:

- Energy
- Agriculture and food security
- Maritime infrastructure

## BACKGROUND

Placing commercialisation, applied and translational research at the top of his agenda, the Minister for Research, Technology and Higher Education, Muhammad Nasir, has called on universities, research institutes and industry to work more closely together to undertake innovative research that is both in the public interest and the mutual interest of both universities and businesses. Minister Nasir also called on the private sector to make better use of research that is produced in universities and research institutes to strengthen domestic production.

Currently Indonesia invests a relatively small 0.1 % of GDP in research and development - significantly lower than other countries in the region such as Thailand and Malaysia, about 80% of which comes from government funding and 20% from the private sector. Minister Nasir stated recently that ideally, research investment would be a minimum of 1% of GDP, but that in the first instance, the government will set a target of 0.5% of GDP invested in research by 2016. In order to meet that target, Minister Nasir announced that the government will help to forge links with the private sector in order to encourage industry to invest in research in higher education. To that end, the Minister has already brokered an agreement between the State Universities Rectors Forum and the Association of Indonesian Employers (APINDO).

Although research commissioned by the ACDP in 2013 suggests that academia, business and government remain separate sectors in Indonesia with very few examples of productive interaction in which knowledge is jointly developed and shared, Minister Nasir's initiative bringing the Rectors Forum and APINDO together reflects one of the ACDP report's recommendations that government provide more structured opportunities for universities and the private sector to meet. Moreover, the 'triple helix' concept is not new to Indonesia and good examples of productive collaborative working exist, particularly at regional and district level, including Yogyakarta where the conference will be held.

Minister Nasir has also asked Indonesia's international partners, including the UK, to support Indonesia's research plans by sharing experiences – challenges and solutions, in creating an innovative and applicable research environment in line with the new administrations' ambitions for producing innovative, applied and translational research through closer collaboration between universities and the private sector.

In response to Minister Nasir's plans for research in Indonesia, his interest in the international experience and the UK alumni's proposal, the British Council in partnership with the Ministry for Research, Technology and Higher Education and Universitas Gadjah Mada are pleased to present the conference, *Lost in Translation: Identifying ways universities, industry and government can collaborate to promote innovative research and productive interactions.*



# PROGRAMME AGENDA

British Council in partnership with the Ministry of Research, Technology and HE and Universitas Gadjah Mada  
Yogyakarta, 4 March 2015

Time	Activity
08.30-09.00	Registration and refreshments
09.00-10.00 (Bulak Sumur)	<p><b>Welcoming remarks :</b></p> <ul style="list-style-type: none"><li>• Teresa Birks, Director Education and Society British Council</li><li>• Prof Dwikorita Karnawati MSc PhD, Rector of Universitas Gadjah Mada</li></ul> <p><b>Opening address :</b></p> <ul style="list-style-type: none"><li>• Sri Sultan Hamengku Buwono X, Governor of Jogjakarta</li></ul> <p><b>Keynote address : understanding 'triple helix' from an Indonesian perspective</b></p> <ul style="list-style-type: none"><li>• Dr Agus R Hoetman, Deputy Director for Sciences and Technology Network, Ministry of Research, Technology and Higher Education</li></ul>
10.00-11.30 (Bulak Sumur)	<p><b>Panel discussion and Q&amp;A</b></p> <p><b>Mechanisms supporting sustained collaboration between universities/research institutes and industry</b></p> <p>Speakers:</p> <ul style="list-style-type: none"><li>• Vivienne Stern, Director UK HE International Unit</li><li>• Professor Andrew Wathey, Vice Chancellor, Northumbria University</li><li>• Prof Anas M Fauzi, Vice Rector for Research and Collaboration, Institut Pertanian Bogor</li><li>• Suprayitno, Chairman, Association for Indonesian Entrepreneurs (APINDO) – Jakarta Province</li><li>• Milawarna, CEO, PT Bukit Asam</li><li>• Nada D.S. Marsudi, M.Phil, Assistant Deputy Director for Sciences and Technology Network, Ministry of Research, Technology and Higher Education</li></ul> <p>Moderator : Dr I Made Andi Arsana, Head of International Office Affairs, Universitas Gadjah Mada</p>
11.30-13.00	Lunch
13.00-14.30	Parallel sessions
Parallel A (Sekip)	<p><b>What do academics and industrialists need to learn about each other and how can such hybrid perspectives be encouraged?</b></p> <p>Speakers:</p> <ul style="list-style-type: none"><li>• Professor Judith Lamie, Deputy Vice-Chancellor, International, Middlesex University</li><li>• Professor Ocky Karna Radjasa, Professor of Marine Coral Reef Study, Director, Research and Community Service Institute, Universitas Diponegoro</li><li>• Hari Dendi, Coordinator Kadin/UGM/Gov of Jogjakarta triple Helix program; Chief Advisor, Yogya Trade and Financial Development Board</li><li>• Dr Warsito Purwo Taruno, CEO, CTECH Laboratories</li></ul> <p>Moderator : Enda Ginting, UK Alumnus, MSc in Economics, Finance and Management, the University of Bristol</p>

# PROGRAMME AGENDA

British Council in partnership with the Ministry of Research, Technology and HE and Universitas Gadjah Mada  
Yogyakarta, 4 March 2015

## What new infrastructure is needed in order to foster university-industry links?

Parallel B  
(Wanagama)

### Speakers:

- Wisnu Sardjono Soenarso, Deputy Assistant, Investment for Science & Technology, Ministry of Research, Technology and Higher Education
- Dr Hargo Utomo MBA, Director, Directorate for Business Development and Incubation, Universitas Gadjah Mada
- Professor David Taylor, Pro-Vice Chancellor - International, University of Huddersfield
- Dr drh Maharani MSi, Head of National Research Translation and Harmonisation, PT Bio Farma

Moderator : Andrew Sutedja, Chairman – Young Professional Group,  
British Chamber of Commerce

## Teaching innovation and entrepreneurship: how can universities, industry and government encourage the next generation

Parallel C  
(Nusantara)

### Speakers :

- Dr Pariatmono, Deputy Director, Science & Technology Utilization, Ministry of Research, Technology and Higher Education
- Prof Dr Djoko Santoso, Professor in Mining and Petroleum Engineering, ITB, former Directorate General of Higher Education, Ministry of Research, Technology and Higher Education
- Prof Dr Mukhtasor, Profesor in Renewable Marine, Institut Teknologi Sepuluh Nopember
- Professor Jan Palmowski, Pro-Vice Chancellor (Postgraduate & Transnational Education), University of Warwick
- Dr Jess C Fernandez, Programme Deputy Director, SEAMEO BIOTROP

Moderator : Dr Ika Dewi Ana, Director, Center of Academic Innovation and Policy,  
Universitas Gadjah Mada

14.30-15.00

Coffee break

15.00 -16.30

Sharing and speed dating sessions: identifying research translation projects and solutions through collaborative and consortia working (possible Newton Funding)

Parallel D  
(Sekip)

### Energy

Chair : Ir Tutuka Ariadji, MSc, Ph.D, Vice Dean for Academic Affairs of Faculty of Mining and Petroleum Engineering, Institut Teknologi Bandung

Parallel E  
(Wanagama)

### Agriculture

Chair: Prof Eni Harmayani, Professor in Food Security, Universitas Gadjah Mada

Parallel F  
(Nusantara)

### Maritime

Chair: Prof Dr Mukhtasor, Professor in Marine Renewable Energy, Institut Teknologi Sepuluh Nopember

16.30-17.30  
(Bulak Sumur)

Summing up: recommendations and follow up  
Presentation from chairs parallel D, E, F & British Council & Ministry of Research, Technology and Higher Education

18.30

Bus departs from UC UGM and Santika Premiere

19.00-21.30

Dinner reception at Bale Raos Restaurant

# LIST OF SPEAKERS AND CHAIRS

## Professor Anas Miftah Fauzi

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Prof Anas Miftah Fauzi was born on 19 April 1960. He received M.Eng in fermentation technology from Osaka University (Japan) in 1990 and Ph.D from Graduate School of Biosciences, Kent University (UK) in 1995. He joined Bogor Agricultural Institute in 1983 as a lecturer. His administration roles include vice dean for academic affairs at Faculty of Agriculture Engineering and Technology (1997-2003), dean at Faculty of Agriculture Engineering and Technology (2004-2007) and vice rector for research and collaboration (2008-present). He has participated in important international education forum such as QS-APPLE, APAIE and EAIE. He initiated and managed both national and international academic collaborations including joint research and dissemination of innovation programs. He is a member of the International Academic Advisory Committee of the QS-APPLE conference since 2010. Currently, he serves as the coordinator (speaker) for Indonesian university consortium for the joint research programs with Goettingen University (CRC 990/EFForTS) and with Australian University (Australia-Indonesia Centre/AIC).

## Andrew Sutedja

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Andrew is a Managing Partner of Sutedja & Associates Law Firm. Andrew has been actively involved in various notable and handling various prominent cases. He specializes in corporate and commercial practice legal practices and alternative dispute resolution (ADR).

### Educational Background :

- Sarjana Hukum (S.H.), Universitas Pelita Harapan, Karawaci – Tangerang.
- Master of Laws (LL.M in Commercial Law): the University of Sheffield, the United Kingdom.
- A.CI Arb (Associate of the Chartered Institute of Arbitrators), London, the United Kingdom.

Andrew completed his mini-thesis with title: "Legal aspect of Risk Management in the Banking System" and gained his LL.B (S.H.) degree with cum laude degree from the Universitas Pelita Harapan – Karawaci-Tangerang. Moreover, Andrew wrote a dissertation with a research question so-called: "Does the intervention of the court in arbitral process jeopardise the independency of the arbitration tribunal? A comparative study between England and Indonesia" and obtained his Master of Laws, (LL.M in Commercial Law) from the University of Sheffield, the United Kingdom. He also completed his Arbitration Course at the Chartered Institute of Arbitrators, Bloomsbury - London and currently registered as an Associate at the Chartered Institute of Arbitrators (A.CI Arb) in 2012.

Andrew has worked for the Embassy of the Republic of Indonesia for the United Kingdom, Republic of Ireland and International Maritime Organisation (IMO) in London. He served at four different sections at the Embassy including: Political Affairs, Trade and Investment,

Education and Socio-Culture Departments. He was also personally and directly responsible in assisting the Ambassador on various matters.

In early 2011, Andrew joined the Indonesian House of Representatives ("DPR-RI") as an expert staff to Member of Parliament of The Republic of Indonesia Commission III: Legal Affairs and Laws, Human Rights and Security.

## Professor Andrew Wathey MA DPhil FRHistS FRSA FSA

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Professor Andrew Wathey has been Vice-Chancellor of Northumbria University since September 2008. He is the University's fourth Vice-Chancellor.

Born in Plymouth, he graduated in Music from the University of Oxford in 1979, where he took his doctorate in Music in 1987. He was a Junior Research Fellow at Merton College Oxford, and then a Research Fellow at Downing College, Cambridge. In 1989 he became Lecturer in Music at Royal Holloway, University of London, and Reader from 2005, and in 1999 he was appointed Professor of Music History. He held roles within the Music Department and as Dean of the Faculty of Arts at Royal Holloway, before being appointed Vice Principal (Planning and Resources) in 2003, and Senior Vice-Principal in 2006.

Professor Wathey's published research has focused on the social and cultural history of music in late-medieval England and France, in particular court patronage, music in medieval towns, and the 14th-century motet. He has also been heavily involved in the digital study of medieval music manuscripts, and was a co-founder of the Digital Image Archive of Medieval Music (DIAMM). He is a member of the British Academy's Early English Church Music Committee, which he chaired 2002-2007, and of the RISM (UK) Trust. He was also Chair of the Music subject panel in the 2008 Research Assessment Exercise.

He was a Visiting Fellow at All Souls College, Oxford in 1998. He is a Fellow of the Royal Historical Society, of the Society of Antiquaries, and of the Royal Society of the Arts, and was a Vice-President of the Royal Musical Association from 2001 to 2009.

Professor Wathey chairs the Stakeholder Forum of the Student Loans Company, and is a Board Member of the Leadership Foundation for Higher Education and University Alliance. He is a Member of Universities UK's Longer Term Strategy Group and of its Finance and Research Policy Networks.

Regionally, he is an elected Member of the CBI Regional Council, and a Governor of Newcastle Hospitals NHS Foundation Trust. He also serves on the Boards of the BALTIC Centre for Contemporary Arts, and the Newcastle Gateshead Initiative.

# LIST OF SPEAKERS AND CHAIRS

## Dr. Agus Rusyana Hoetman

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Dr. Agus Rusyana Hoetman received his first academic degree in physics from Padjadjaran University, Bandung, Indonesia in 1980. He then accomplished a master degree in Advanced Thermodynamics, Energy Engineering, Salford University, Manchester, UK. His doctoral degree in Advanced Energy Engineering was also obtained in the same University.

In 1980, he began his career at the Agency for the Assessment and Application Technology (BPPT), as an engineer in Energy Technology. At the Agency, he served as a team leader, at the Engineering Centre of the Strategic Industries Management Board, throughout the span years of 1991 to 1995. Almost concurrently to his tenure at the Board, he received assignment as the Head of the Engineering Centre in 1991-1999.

Through the years of 1999 to 2004, Dr. Hoetman received the trust as the Head of Laboratory of Energy Resources, BPPT. The service then was continued by his taking the role as Head of the Energy Research Centre, BPPT (2004-2006). By 2006, Dr. Hoetman moved to the Ministry of Research and Technology (RISTEK) to conduct a duty as a Director of Energy Engineering Development. After that, he was entrusted to become the Senior Advisor for Energy and Advanced Material to the Minister, from 2010 to 2013. In April 2013, he received the formal assignment to become the Deputy Minister for Science and Technology Network.

## Professor David Taylor

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David graduated from the University of Huddersfield with a first class honours degree in Electronic and Electrical Engineering and won the IEE Prize.

As a sponsored student of the NCB, he then worked for 6 years in the mining industry before returning to academia.

He was awarded his PhD in 1990 for work on self-testing integrated circuits and has since supervised 15 PhDs as Director of Studies, published almost 100 research papers and been awarded a number of Research Council grants.

His principal research interests are in integrated circuit design, mixed-signal testability and error-control coding.

He was awarded a chair in 1999 and now has over 25 years of experience in HE, having previously held roles at Lecturer, Senior Lecturer, Head of Department, Associate Dean and Dean level. He is a Fellow of the IET, the BCS and the HEA.

He is currently responsible for the University's International Strategy, the central theme of which is to become a University of International Renown. This encompasses the development of international

partnerships, coordinating international admissions and being responsible for international student experience. Uniquely the University's International Office takes an holistic view of its activities and combines partnership development and student admissions with social, pastoral and academic support for international students, all from one combined team. This has enabled the University to grow its international reputation and to top the International Student Barometer for student experience.

## Professor Ir Dwikorita Karnawati MSc PhD

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Professor Dwikorita is a well-known professor for her accomplishment in the field of Geological Engineering. Previously she received an award as the Outstanding Head of Geology Engineering Programme Study of UGM, an award given by the 2010 National Selection Committee of Outstanding Academicians of UGM. She was awarded the second place as the outstanding librarian and the first place of well-accomplished lab technician.

Professor Dwikorita had been the Head of Geological Engineering at UGM for seven (7) years from 2003 to 2010. An expert in the natural disaster hazards, she was the first professor to observe and map out the earthquake-prone areas in Bantul with the intensity level of its vulnerability post-earthquake in Yogya in 2006. Later that year, she was inaugurated as the Professor of the Faculty of Engineering.

Professor Dwikorita obtained her bachelor's degree from UGM, and both her master's and PhD degree from Leeds University, UK. Her achievement was also internationally recognised. She had received a numbers of awards. This includes The Young Academic Award, the World Bank in 1997 and the Leverhulme Professorship Award from the Institute for Advanced Studies, University of Bristol in 2002. Also in 2010, she worked with the British Council Indonesia through a Development Partnership in Higher Education (DePHE) Programme and the KKN PM UGM that since 2007 had developed an innovative method to map the movement of soil through society-participatory based.

Professor Dwikorita was officially appointed as the first female rector of Universitas Gadjah Mada, on 24 November 2014. Before getting appointed as the Rector, she was the Vice Rector for Alumni and International Cooperation.

## Enda Ginting

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Enda is involved in numerous initiatives on proliferating the exercise of critical thinking through parliamentary debates. Enda worked for the Ministry of Finance of Indonesia for over nine years and holds a masters in economics, finance, and the management from the University of Bristol.



# LIST OF SPEAKERS AND CHAIRS

## **Professor Dr Ir Eni Harmayani MSc**

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Professor Eni Harmayani began her tenure at the Faculty of Agriculture Technology of Universitas Gajah Mada 1987. She has published more than 30 scientific papers in national and international journals. In 2012, she authored her first book entitled *Agroforestry Porang : Masa Depan Hutan Jawa*.

She completed her bachelor's degree at UGM in 1987 and completed her master and doctoral degree in food science and human nutrition at Colorado State University, USA in 1993.

For her dedication and passion in developing the knowledge on Indonesian food quality and variety, Prof. Dr. Ir. Eni Harmayani, M.Sc was awarded *Adhikarya Pangan Nusantara* by President Susilo Bambang Yudoyono in 2012.

## **Dr Hargo Utomo**

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Dr Hargo Utomo is the Director of Business Development and Incubation at Universitas Gajah Mada. He earned his bachelor degree from Faculty of Economics, Universitas Gajah Mada and Master of Business Administration from University of Bridgeport (USA). He completed his doctoral degree in 2001 from the Australian National University. He was previously assigned as the Director of Master of Management Program at UGM's Jakarta campus. Hargo has authored numerous journals on the impact of information technology adoption and behavioral information system. He is the member of the association for Information Systems, Atlanta, USA.

## **Hari Dendi**

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Hari Dendi is the Chief Advisor at Yogya Trade and Financial Development Board (BP2JKY) and Coordinator of KADIN/UGM/ Government of Jogjakarta triple helix program. He is a seasoned business professional who previously assigned as the Chair of Jogjakarta Chamber of Commerce and Deputy Chair of Jogjakarta Education Board.

## **Ika Dewi Ana DDS PhD**

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Ika Dewi Ana was born in Yogyakarta on September 16th, 1968. She is a dentist by training, graduated from Gadjah Mada University in 1993 and doing her private practice in Yogyakarta. She is an associate professor of The Faculty of Dentistry, Gadjah Mada University. She has been working at her institution since 1993 just after her graduation from the faculty. Her area of interest is bioceramics, tissue engineering, and regenerative medical therapy. She got a PhD in Dental Sciences from Kyushu University, Japan, in 2004. Her thesis is entitled "Development of Bioactive Resin Modified Glass Ionomer Cement for Bone Substitution Purposes" under the supervision of Professor Kunio Ishikawa, who is

considered to be a pioneer in CaP cement research. By her thesis, she got an award from Asian BioCeramics Society to be the most outstanding research presenter in 2003. She then got an award from Gadjah Mada University for the most innovative research in 2004 and 2011.

She received a post-doctoral grant from JSPS (Japan Society for The Promotion of Science) in 2005 to run a three years research work entitled "Development of CHA Bone Substitute Based on Phase-transformation of Gypsum and Calcium Hydroxide". By that research, she then continued the study under the supervision of Professor John A. Jansen of Radboud Universiteit Nijmegen Medical Center on her research title "Development of Injectable CHA Bone Substitute" funded by KNAW (The Royal Netherlands Academy of Arts and Sciences) in 2006 for a two year research project. She got 4 national patents (2 have been granted) from the above two post-doctoral research works.

Two of her research works are now in process of translation into the market in Indonesia with PT Kimia Farma – Indonesia (CHA Bone Graft Substitute) and with one vaccine company (CHA as an Alternative Adjuvant and Patch Delivery for Next Generation of Vaccine).

## **Dr I Made Andi Arsana**

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Andi is a lecturer in Geodesy and Geomatics at Universitas Gadjah Mada. Born in Tabanan, he graduated in Geodetic Engineering from Universitas Gadjah Mada. He earned M.E. in Surveying & Spatial Information Systems and PhD in Ocean Affairs and Law of the Sea from the University of New South Wales, Australia.

Andi is the recipient of numerous awards including the Alison Sudradjat Awards (2012); The Champion of the Essay Writing Contest on National Education Day, Canberra, 2012; The Champion of International Writing Competition "Solution for Jakarta" in the Netherland, 2012; The Champion of the International Competition of Innovative and Scientific Writings 2009 in Paris (2009), Australian Leadership Awards (2008), UN-Nippon Fellowship (2007), Australian Development Scholarship (2004-06).

He is a published author with 200 publications (papers, journal, books, proceedings, articles) on maritime boundary delimitation, geospatial aspects of the law of the sea, land boundary delimitation and demarcation, Geographic Information System.

## **Professor Jan Palmowski**

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Jan's primary responsibilities are to provide academic leadership for:

- Postgraduate Teaching and Learning
- Development of the Warwick Graduate School
- Transnational Teaching and Learning Programmes

# LIST OF SPEAKERS AND CHAIRS

In addition, Jan provides academic leadership for:

- Marketing and brand development
- Student recruitment
- International student mobility

Jan's international focus is Europe.

Jan is a member of Senate, Assembly, Steering Committee, SMT, Nominations Committee, Academic Resourcing Committee, Fitness to Practise Committee (MB ChB), Continuation of Registration Committee - Undergraduate Students, Continuation of Registration Committee - Postgraduate Students, Fees Working Group, Academic Activities Sub-Committee, Research Committee, PGR Admissions Forum, PGR Forum. He also chairs the following:

Board of Graduate Studies

- Graduate Awards and Nominations Committee
- Panel for the Committee on the Admission of Students to Courses of Study
- Student Discipline Committee (Rotational Chair)
- Student Discipline Appeals Committee (Rotational Chair)
- Student Academic Complaints Committee (Rotational Chair)
- Graduate Appeals Committee (Rotational Chair)
- Student Recruitment and Admissions Marketing Strategy Group
- Chaplaincy Advisory Group
- International Sub-Group (AQSC)

## Dr Jess Fernandez

Dr. Jess Fernandez directs and supervises the research and capacity building programs and activities of SEAMEO BIOTROP as its Deputy Director for Program. He has been in the business of human and institutional development in Southeast Asia for the past 20 years. He holds a PhD degree in Community Development.

## Professor Judith Lamie

As Deputy Vice-Chancellor, International, Judith is responsible for the strategic leadership and development of the University's international activities, partnerships, business development and reputation. She leads and manages the University's International Regional Directors who are based in Dubai, Hong Kong and London, the Director of Academic Partnerships, and the Director of International Business Development.

Judith has over 20 years' experience in international education, having lived and worked in Europe and in the Far East. A graduate of Warwick University, where she studied for a BA in English and Education, Judith gained her PhD in English from the University of Birmingham. She has written and presented widely on English language teaching and learning, and the management of change and innovation. In more recent years she has focused on internationalisation and in particular on the implementation of internationalisation at Higher Education institutions globally.

## Dr drh Maharani MSi

Dr drh Maharani MSi is the Head of National Research Translation and Harmonisation at PT Bio Farma. She joined PT Bio Farma in 1994 as a staff of viral vaccine QC. Maharani served as the Head of Polio vaccine production in 1999 and was appointed as Project Manager of Inactivated Polio vaccine, Rotavirus vaccine, DM diagnostic in 1999 – 2012. Prior to her current assignment, she served as the Head of Clinic and Immunization Division.

Since 1997, Bio Farma is one of 23 manufacturers of vaccines worldwide who have earned the WHO Prequalification. Bio Farma also has been certified GMP (Good Manufacturing Practice) by the National Agency of Drug & Food Control (NADFC), Quality Management System ISO 9001: 2008, ISO 14001:2004 and OHSAS 18001: 2007.

## Milawarma

Milawarma was born in Malang, 30 September 1958. He earned Bachelor of Mining Engineering from UPN Veteran Yogyakarta (1987) and received Master of Engineering from University of Wollongong (Australia) in 1995. His strategic roles at PT Bukit Asam include Head of Long-Term Mining Planning (1995-1996), Head of Business Diversification (1997-1999), Business Analyst/Senior Business Development Professional (2006-2011). Milawarma was appointed as the CEO of PT Bukit Asam since December 2011 and has been serving as the chair of UPN Veteran Yogyakarta Alumni Association (2012-2016).

## Professor Dr Mukhtasor

Prof. Dr. Mukhtasor is a professor at Ocean Engineering Department, Institut Teknologi Sepuluh Nopember (ITS) Surabaya and was a member of National Energy Council (2009-2014). Prof. Mukhtasor is active in the field of environment and energy, which he is one of Indonesia's representative as Committee on Asian Wave and Tidal Energy Conference (AWTEC, since 2013) and observer of the Executive Committee, the implementing Agreement on Ocean Energy Systems (OES), the International Energy Agency (IEA, since 2011).

Mukhtasor completed his bachelor degree at ITS (1993), then continued his master and doctoral programs at Memorial University of Newfoundland (MUN), Canada in the field of Ocean Environmental Risk Engineering (2001).

He was awarded honours of SATYALANCANA KARYA SATYA from President Susilo Bambang Yudhoyono in 2006. Now, he is working on the implementation programme of marine energy pilot project with Ministry of Energy and Mineral Resources.

# LIST OF SPEAKERS AND CHAIRS

## Nada D.S. Marsudi, M.Phil

Ms. Nada D.S. Marsudi began her career as a Biotech researcher in the Agency for the Assessment and Application Technology (BPPT) in 1991. After two years of her service, she was trusted as the coordinator for the Assessment of Biofertilizer Technology Program, Directorate of Technical Sciences, BPPT. Her strong educational background in Biology-Biotechnology, was achieved from academic degrees of the Bachelor (Ir) in Bogor Agriculture University (IPB), Bogor, Indonesia in 1990, and the Master of Philosophy (MPhil) by research, in Murdoch University, Western Australia in 1998.

After accomplished her study in Australia, Ms. Marsudi returned to BPPT in the Biotech Center – BPPT, became the Head of Division, for the Agricultural Biotechnology Program in 1998. She and her strong research team developed the “Technofert” – Biofertilizer from Mycorrhizae, in order to improve the growth of various plants in Indonesia. She also successfully conducted ‘the science and technology products application program in the Indonesian regions (IPTEKDA)’, in Ponorogo, East Java Province and Karangasem, Bali, (1999-2000).

In 2001, she was assigned to assist the Indonesian Ministry of Research and Technology (RISTEK), the Republic of Indonesia, as the Head of Sub-Division of International Programs; before being promoted into the Head of Division of ST Programs in 2003. In this new position, which is totally different from her educational background and former working experiences, she gained a lot of unique and significant International experiences that enriched her knowledge on the International cooperation on Science, Technology and Innovation (STI). She handles the whole International cooperation programs in the Ministry (bilateral, regional and multilateral cooperation). In addition, she also deals with International STI policies, regulations, incentive research programs. As she mastered International issues for developing STI in Indonesia, she was promoted to become the Acting Assistant Deputy Minister for International ST Program in 2007-2009, which then followed by another promotion as the Assistant Deputy Minister for International ST Network 2009 – now.

## Professor Ocky Karna Radjasa

A professor of Marine Microbiology and a Director of Research and Community Service Institute, he earned his PhD from the University of Tokyo in 2001 and was a DAAD fellow at Institute of Chemistry and Biology of Marine environment, University of Oldenburg, Germany and a Humboldt Fellow at IFM-GEOMAR, Kiel Germany. I was one of the awardees of the Collaborative Development Award (CDA), East Asia Research Partnership Programme that was held by the British Higher Commission Singapore and the British Council in 2013. Recently Professors Ocky won a prestigious event in international level research “Bio vision the World Life Science 2013” in Lyon, France. Biovision the World Life Science Forum 2013 is the

world's IPA Forum organized by Biovision, a nonprofit organization that is managed by the University of Lyon, France. The Forum is held once in a two year with six focuses. His research was under the Focus III with the research title: “Discovery of Therapeutic Leads From Marine Microbial Symbiont For Multi Drug Resistant (MDR)-TB: An Environmentally Friendly Source of Novel Marine Natural Products”.

## Dr Pariatmono Sukamdo

Current Position : Deputy Minister for Empowering of Science and Technology.

Education :

- Civil Engineering, Bandung Institute of Technology (ITB), Indonesia, 1986
- Master of Science in Structural Steel Design, Structures Section, Department of Civil Engineering, Imperial College of Science, Technology and Medicine, London, UK, 1989
- Doctor of Philosophy in Structural Stability, Structures Section, Department of Civil Engineering, Imperial College of Science, Technology and Medicine, London, UK, 1994

## Suprayitno BSc MBA

Suprayitno is the Chair of Association of Indonesian Entrepreneurs (APINDO). APINDO is the unifying organisation for Employers. Participating in the establishment of social welfare in the business community through integrated cooperation between the Government, Employers/enterprises, and Workers, within the framework of active participation for the achievement of the national aims.

APINDO was recognized in 1975 by Decree of the Minister of Manpower, and mandated by KADIN Indonesia (the Indonesian National Chamber of Commerce and Industry), to represent the Employers on issues related to industrial relations and manpower affairs. The Head office of APINDO is in Jakarta, while in each of the 26 provinces the organisation is led by the respective provincial boards, and subsequently in the district by 173 district boards.

## Teresa Birks

Teresa joined the British Council in March 2014 as Senior Higher Education Consultant and starting April 2014 was appointed as the Director of Education and Society of the British Council Indonesia. Before joining the British Council, Teresa was a Teaching Fellow in Indonesian at the School of Oriental and African Studies where in a previous incarnation was also Manager of Less Widely Taught Languages. Teresa has over 20 years' experience working as a researcher and practitioner in community driven development with specific expertise in human rights, political participation and democracy and critical media literacy. Teresa has lived and worked in Indonesia, Malaysia and East Timor including the International

# LIST OF SPEAKERS AND CHAIRS

Centre for Transitional Justice, Search for Common Ground, Oxfam GB, the North Sumatra Peasants Union and the Jatiwangi Art Factory. A founder member, she was a member of the advisory board of the Centre for History and Political Ethics at Sanata Dharma University in Yogyakarta, Indonesia for 8 years. Teresa was also founder and director of Resilient Communities, a social enterprise providing support to people who are working locally to build resilience in their communities. Teresa also has an interest in the promotion and support of multilingualism and the valorisation of heritage languages. Her work in this area has included research in the provision of community languages in Higher Education, resource and curriculum development and as a member of the (then) Department for Innovation Universities and Skills Higher Education Implementation Group for National Languages Strategy.

## **Ir Tutuka Ariadji MSc PhD**

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Ir Tutuka Ariadji MSc PhD is the vice dean for academic affairs of faculty of mining and petroleum engineering, Institut Teknologi Bandung. Born in Solo, he earned his Bachelor of Science in petroleum engineering from Institut Teknologi Bandung and completed his masters and doctoral degree in petroleum engineering from Texas A&M University. He is currently a lecture on Production Optimization and Plan of Development at faculty of mining and petroleum engineering, Institut Teknologi Bandung. A petroleum engineering specialist, Tutuka has undergone numerous trainings in Natural Gas Reservoir & Production Engineering, Pressure Transient Analysis, Oil and Gas Surface Facilities and Transportation, Plan of Development, and Well Testing.

## **Vivienne Stern**

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Vivienne is the Director of the UK Higher Education International Unit which represents the UK higher education sector internationally. The Unit works to support the UK higher education sector's international activities, and to promote its distinctive strengths overseas. Prior to her role in the Unit, Vivienne was Head of Political Affairs at Universities UK where she was responsible for developing and implementing the political strategy for the membership body representing 134 UK Universities. She previously worked in the UK Parliament for the Chair of the Education and Skills Select Committee, and as a Policy Advisor for Universities UK, specialising in quality, student experience, innovation and university-business links. She is a graduate in English Literature from the University of Cambridge.

## **Dr Warsito Purwo Taruno**

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Dr Warsito P Taruno, M.Eng is the founder of CTECH Labs EdWar Technology and its current CEO. He has more than 20 years of experience in the field of tomography. He earned his Bachelors and Masters' degrees in Chemical Engineering and his PhD in Electrical Engineering from Shizuoka University, Japan. One of his research milestones is the invention of Electrical

Capacitance Volume Tomography (ECVT) in 2004 during his research collaboration with Professor Liang-Shih Fan and PhD student Qussai Marshdeh at Ohio State University. Recognised for his expertise and leadership, Dr Warsito has held numerous positions in government and academics. He currently serves as the chairman of the Society of Indonesian Scientist and Engineers (MIT) since 2004. He previously served as a Deputy Minister of Research and Technology of the Republic of Indonesia in 2009 – 2011.

## **Wisnu Sardjono Soenarso**

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Wisnu Sardjono Soenarso serves as Deputy Assistant, Investment for Science & Technology at the Ministry of Research, Technology and Higher Education. Prior to his current assignment, he was the head of PUSPIITEK (Science and Technology Centre).



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