Spotlight on: Excellent Researchers from Southeast Asia

Results of a SEA-EU-NET Mapping Study

F. Gruber, A. Degelsegger (Eds.)
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Introduction

Executive summary

The rationale for publishing this booklet is to raise awareness for the existence of high-quality research and to present a pool of excellent researchers in Southeast Asia.

Here we do not aim to provide an exhaustive list of all the best scientists from the region. However, we want to show “spotlights” of excellent researchers and their home institutions. We expect that the portraits of these excellent researchers will heighten the interest of European colleagues to take a better look at the opportunities presented in the region of Southeast Asia, as well as to consider their colleagues from the Southeast Asian region as potential partners in their future scientific endeavours.

In this way, we aim to contribute to the enhancement of scientific cooperation between researchers in this region and the European Union.

Methodology

In order to find the excellent researchers that can be of interest to the international science community, we combined an internal and external approach, preparing the empirical ground for a qualitative and quantitative data collection and analysis:

On the one hand, the approach is internal, as our hypothesis was that the countries themselves have the best knowledge, who their excellent scientists are. Furthermore, we assumed that those scientists are in many cases nationally highlighted by awarding prizes for their scientific achievements.

On the other hand, based on this assumption, there is the external part of the approach. In order to have a comparable selection of excellent scientists we developed the following set of common global criteria for the selection of the awards in all countries:

- the awards should have a competitive selection procedure of the laureate
- it should be the or one of the major scientific awards within the country
- it should be awarded for scientific excellence, not for lifetime achievements or achievements for networking
• the prizes should be awarded regularly; each year, or each 2 years at least.
• the selected eminent scientists should have been awarded the prize during the last 5 years (in special cases we also considered a longer duration), to ensure that the scientists are still active in their field and therefore interested in cooperations
• the selected scientists should have an institutional affiliation within SEA

From the outset, in identifying awards that meet these criteria, we relied on recommendations from our SEA-EU-NET project partners from Southeast Asia, namely:
• Indonesia / Ministry of State for Research and Technology
• Thailand / National Science and Technology Development Agency
• Vietnam / National Centre for Scientific and Technological Information

Singapore’s excellent scientists were selected from Singapore’s National Science and Technology Award winners, and the ASEAN secretariat contacted the rest of the countries that are currently not partner in our project for information. The Department of Science and Technology of the Philippines also provided a list of awardees.

Based on the selected awards, our Southeast Asian project partners provided contact data for five to ten excellent scientists.¹ The Centre for Social Innovation in Austria then contacted the scientists by e-mail and telephone and asked them to provide information for the publication by filling in an online questionnaire and providing a CV.

The information we requested was structured along:
• information on the researcher
• information on the affiliated institution
• reasons for international cooperation
• international cooperation potential
• further information

After several feedback loops we could obtain complete responses from 33 out of the 77 researchers successfully contacted, which means a response rate of 42.86 %.

¹ In the case of Malaysia the Centre for Social Innovation in Austria, with the support of SIRIM Berhad, took over the selection of the awards, as no official endorsement could be obtained.

To emphasize the importance of the Southeast Asian region as a whole rather than taking into account national considerations, the researchers in this booklet are presented in their respective fields of science rather than per country. However, table 1 shows the distribution of number of presented researchers per country per fields of science.

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<th>Field of Research</th>
<th>ID</th>
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<th>SG</th>
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<td>6</td>
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<td>5</td>
<td>4</td>
<td>33</td>
</tr>
</tbody>
</table>

Table 1: Responses per field of research and country

Figure 1: Number of complete research profiles per country
Please find in the appendix of the booklet the complete list of contacted scientists, as provided by our Southeast Asian project partners.

In order to ensure a better readability of the booklet we decided to present the portraits mainly in narrative form, which sometimes necessitated omitting some part of the received information. The full information can be obtained on the SEA-EU-NET website www.sea-eu.net in the “Who’s Who directory”.

This booklet will be disseminated via post mail to European National Contact Points that deal with International Cooperation within the 7th Framework Programme and to stakeholders during events.
Department of Mathematics  
Faculty of Science  
Chiang Mai University

The Department of Mathematics with its 16 research groups forms part of Chiang Mai University’s Faculty of Science. The faculty is one of the three original faculties established, when the university was first founded in 1964. It has a policy to support cooperation in joint research with the public and private sectors both at home and abroad in order to develop its own academic potential towards an international level with the capability of industrial applications. As a way of encouraging academic excellence, the Faculty of Science also promotes group research by supporting the establishment of research units and research laboratories. Researchers from these research groups have contributed their papers to professional journals, technical meetings and conferences both on a national and international level.

The Faculty of Science enjoys cooperations with many international organizations and institutions. Such cooperations include education, study tours, training programmes and joint research projects. Cooperation takes the form either of formal or informal agreements. The main objectives of this cooperation are:

- cooperative research
- exchange of scientific information
- development of lecturers and researchers

Contact details

Prof. Dr. Sompong Dhompongsa  
Thailand

Prof. Dhompongsa is professor of mathematics at Chiang Mai University in Thailand, where he is working on the fixed point theory in metric spaces, Banach spaces, Banach algebras, and Banach lattices. From an organisational and networking point of view, Prof. Dhompongsa undertakes efforts to strengthen the University’s PhD programme of mathematics. In Thailand, he has recently been awarded the Outstanding Scientist of the Year 2007 Award for his work on the fixed point and probability theory.

Recent publications

- S. Dhompongsa and B. Panyanak, On 4-Convergence Theorems in CAT(0) Spaces, Computers and Mathematics with Applications, 56 (2008), number 10, 2572 – 2579.  

Facts of relevance for international research cooperation

Number of R&D personnel in your subunit as headcount:

- Researchers from abroad currently working in your subunit:

- International Scientists to visit your subunit in 2008 staying for at least one week for research:

- National Researchers in your subunit having spent at least one study semester abroad:

- Researchers in your subunit currently involved in research projects with int'l cooperation partners:

- Approximate proportion (in %) of internationally funded research projects in your subunit:

Participation in international cooperation projects:

- FRANCO-THAI Project in Higher Education, with the Universities of Bretagne Occidentale and Brest

Expected role in future international cooperation projects:

- project partner

Contact details

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Dr. Lenbury is a mathematician working on the dynamical modelling of nonlinear systems in biotechnology, medical science, ecology and environmental science. She earned her MSc in Applied Mathematics from the Australian National University, her PhD from Vanderbilt University in the US and, since 1996, is professor at Mahidol University’s Department of Mathematics. Her research has resulted in over 60 publications in international journals, some of which are in the Science Direct’s lists of top 25 hottest articles in the respective journals. In 2007, Prof. Lenbury received the Outstanding Scientist Award from the Thai Foundation for the Promotion of Science and was honoured in 1998 with the Outstanding Researcher of the Year Award by the Thai National Research Council.

Recent publications

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Asst. Prof. Luis Francisco G. Sarmenta, PhD
Philippines

While being based as a research scientist in the Media Lab at the MIT in Massachusetts/USA, Dr. Sarmenta still holds a position as an assistant professor in the Department of Information Systems and Computer Science (DISCS) at Ateneo de Manila University, where he has studied and taught since 1992. As a computer scientist, Dr. Sarmenta is specialised on mobile computing (and applications in health, finance, community, etc.), technologies for the developing world, medical computing, computer security, social computing and distributed computing.

In 2005, he has been granted the ASEAN Young Scientists and Technologists Award and the Outstanding Young Scientist Award (from the Philippines National Academy of Science and Technology) for his research on mobile and grid computing.

Recent publications

Contact details
MIT Media Lab
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Department of Information Systems and Computer Science
Ateneo de Manila University

The Ateneo de Manila’s Department of Information Systems and Computer Science (DISCS) envisions globally-competitive Philippines, whose citizens are empowered by information and its supporting technologies. In partnership with the Ateneo community and the various sectors of society, the DISCS aims at developing world-class information technology professionals capable of designing and implementing information systems that meet society’s needs. The Department aspires to produce graduates, who are technically skilled and solidly grounded in computational theory, able to adapt to changes in technology and able to address a wide breadth of problem situations. The Department’s graduates should also have the interpersonal and communication skills to work effectively with other people.

In 2007, the DISCS was granted the status of a Center of Excellence (COE). In the Philippines, COEs are higher education institutions (HEIs) that demonstrate the highest degree or level of standards along the areas of instruction, research, and extension work.
The School of Applied Physics is one of five schools carrying out research under Universiti Kebangsaan Malaysia’s (UKM) Faculty of Science and Technology (FST). The school’s research activities centre on the following fields: advanced materials and polymers, composite materials, corrosion, energy, instrumentation and devices, medical physics, metallurgy, nanomaterials, nuclear S&T, physics education and society, pulp and paper technology, space science as well as theoretical and computational physics. The general research mission of the FST is to undertake fundamental research as well as to develop innovative technologies for the benefit of the nation and humankind. The faculty is committed towards research excellence to ensure that UKM continues to be a premier research university in Malaysia. Basic and applied research is undertaken across all schools, supported by centres of excellence as well as various institutes within the university. Research facilities such as field stations, experimental field plots, green houses and animal houses, as well as fully equipped modern laboratories are available. Faculty members have international networking experience and are endowed with research grants from various national and international funding sources.

Facts of relevance for international research cooperation

| Number of R&D personnel in your subunit as headcount: | 4 |
| Researchers from abroad currently working in your subunit: | - |
| International scientists to visit your subunit in 2008 staying for at least one week for research: | 2 |
| National researchers in your subunit in 2008 having spent at least one study semester abroad: | 1 |
| Researchers in your subunit currently involved in research projects with intl. cooperation partners: | 1 |
| Approximate proportion (in %) of internationally funded research projects in your subunit: | 10 |
| Participation in international cooperation projects: | • Brain Gain Malaysia – Superconductor Nanomagnet Hybrid, a 6 month project with the Department of Physics, Texas A&M University, USA |
| Expected role in future international cooperation projects: | project partner |

Recent publications


Contact details

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http://www.ukm.my/fst

Prof. Roslan Abd-Shukor, PhD
Malaysia

Dr. Roslan Abd-Shukor is professor at the National University of Malaysia’s School of Applied Physics and performs research in the fields of superconductors, ultrasonic studies on solid and superconductor tapes fabrication. For his work on superconductors, he received, inter alia, the Malaysia Toray Science and Technology Award in 2006 and the National Young Scientist Award in 1999. Prof. Abd-Shukor earned his PhD from the University of Arkansas in the US and was visiting fellow at Princeton University and Texas A&M University, Kyoto University in Japan and the University of New South Wales in Australia. He has published 5 books as well as more than 100 papers in international refereed journals and is a fellow of the Malaysian Academy of Sciences since 2007.
Maju Makmur Mandiri Foundation Research Center

The Maju Makmur Mandiri Foundation was established with the primary aim of facilitating progress for education and research in the area of natural sciences, as well as to provide the know-how on the sustainable use of natural resources in Indonesia, which is inherently weak. The initial aim of the foundation is broadly divided into two parts: firstly, to provide a facility for research in the area of applied laser technology and laser spectroscopy for Masters and PhD candidates; secondly, to impart knowledge and skills to both students and teachers alike on how to make use of simple, easily-obtainable equipments to clearly demonstrate various phenomena in nature. The foundation welcomes Masters and PhD candidates from Indonesia and overseas to make use of its facilities for research and tries its best to seek financial assistance from various sources to ease the financial burden incurred during the research. The foundation will also provide information and assistance to overseas students, who wish to continue their education in Indonesia.

Koo Hendrik Kurniawan, PhD
Indonesia

Dr. Kurniawan is Chief of the Maju Makmur Mandiri Foundation Research Center and earned a PhD degree (cum laude) from the University of Indonesia in 1992 in the field of plasma spectroscopy and its application for spectrochemical analysis. Part of his PhD research was carried out in the laser laboratory of Prof. Kichihiro Kagawa at the Fukui University in Japan. After Dr. Kurniawan’s MSc research project being awarded the first prize in the Second ASEAN Science and Technology Week in 1989, he was also nominated best young engineering researcher by the Indonesia Institute of Sciences in 1997, received the Toray Young Scientist Award in 2001 for his work on applied spectroscopy, and was included in the register of Leading Scientists and Engineers of OIC Member States in 2009.

Up to now, Dr. Kurniawan has published close to 100 papers in international journals and conferences. Furthermore, he is a member of the Indonesia Physical Society, the Japanese Laser Society and the American Society for Applied Spectroscopy and a fellow of the Royal Society of Chemistry.

Recent publications

Maju Makmur Mandiri Foundation
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kurnia18@cbn.net.id
Web: http://www.mmmfoundation.org/
Department of Physics
Faculty of Mathematics and Sciences
University of Indonesia

The Department of Physics, Faculty of Mathematics and Sciences of the University of Indonesia has a long history and tradition in the education and research area since its establishment over 40 year ago. There are five special study programmes, namely “Physics of Nuclear and Particle”, “Physics of Material and Solid Substance”, “Physics of Electronic Instrumentation”, “Geophysics” and “Physics of Medical and Biophysics”. There exist strong links to Indonesian government agencies such as the National Nuclear Energy Corporation, BATAN (previously known as National Atomic Energy Corporation).

Besides the regular program with five special studies as explained above, the Department of Physics has also opened the education for Bachelor degrees, such as the Diploma III Program for the electronics and industrial instrumentation fields. Considering the urgent need of bachelor staff in the instrumentation field, the Department of Physics has also opened the program Extension Bachelor with speciality of electronics instrumentation, medical physics and geophysics.

Recent publications

Dr. Terry Mart
Indonesia

Dr. Terry Mart works at the Department of Physics at the University of Indonesia and has the main research interest in hypernuclear physics, hadronic physics and effective field theory, strangeness physics, nuclear matter and neutron stars physics. In these fields he has published almost 100 papers in refereed journals and conference proceedings.

His work has been awarded for outstanding achievement in basic science research with the Habibie Award in 2001, the Ganessa Widya Jasa Adiutama Award from the Bandung Institute of Technology in 2009, the “Leading Scientists and Engineers from the Organization of the Islamic Conference” in 2008 for his basic science research achievements, and the 2009 “Outstanding Intellectual Property Award” from the Indonesian Ministry of National Education.

Collaboration partners in “Kaon Photo- and Electroproduction” include researchers from Germany, Japan, and the USA.

Facts of relevance for international research cooperation
Number of R&D personnel in your subunit as headcount: 4
Researchers from abroad currently working in your subunit: 2
International scientists to visit your subunit in 2008 staying for at least one week for research: -
National researchers in your subunit having spent at least one study semester abroad: -
Researchers in your subunit currently involved in research projects with Intl. cooperation partners: 4
Approximate proportion (in %) of internationally funded research projects in your subunit: -
Participation in international cooperation projects: -
Expected role in future international cooperation projects: project partner

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Assoc. Prof. Dr. Christopher P. Monterola
Philippines

Dr. Monterola is Associate Professor in Physics at the University of the Philippines Diliman where he works, among others, with Prof. Cesar A. Saloma. From 2003 until 2005, before returning to the university, where he also earned his PhD in 2002, he was a postdoctoral fellow at the Max Planck Institute for the Physics of Complex Systems.

Prof. Monterola's research interest is in computational and statistical physics, granular matter, neural networks and complex systems. His young career as a scientist was already distinguished with the National Research Council of the Philippines' achievement award in 2008.

Besides the goals of building up research partnerships to jointly perform research, produce patents, mutually improve the competitiveness and share costs, Prof. Monterola is interested in international cooperation as a possibility to find good postdoc positions for his graduating PhD students.

Recent publications

Contact details
National Institute of Physics
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Fax: +63 2 928 0296
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Web: http://www.nip.upd.edu.ph/ipl/
Caesar A. Saloma, PhD
Philippines

Dr. Saloma is Dean of the College of Science, UP Diliman and has as primary responsibility to promote the research efforts and academic degree programs of the 11 constituent units of his College. Professionally, he works mainly in the field of Physics at the National Institute of Physics, specialized in the field of Photonics, information processing, complex adaptive systems and management of R&D institutions. He has been awarded the International Commission for Optics’ Galileo Galilei Award in 2004 for his work in Photonics, and the ASEAN Outstanding Scientist and Technologist Award in 2008 for his work in Photonics and Complex Adaptive Systems.

Recent publications

Facts of relevance for international research cooperation

- Number of R&D personnel in your subunit as headcount: 350
- Researchers from abroad currently working in your subunit: 10
- International scientists to visit your subunit in 2008 staying for at least one week for research: 20
- National researchers in your subunit having spent at least one study semester abroad: 10
- Researchers in your subunit currently involved in research projects with int'l cooperation partners: 10
- Participation in international cooperation projects:
- Expected role in future international cooperation projects: project partner
Assoc. Prof. Valerio Scarani, PhD
Singapore

Prof. Scarani is principal investigator at the National University of Singapore’s Centre of Quantum Technologies. He earned his PhD at the Ecole Polytechnique Fédérale de Lausanne in Switzerland and joined NUS in 2007 after being senior researcher at the University of Geneva.

Prof. Scarani’s research interests within the field of quantum information science include:
• Quantum Non-Locality
• Quantum Cryptography
• Entanglement and Thermodynamics
• Theoretical Assessment for Experimentalists

In addition to his research and teaching activities, he is also responsible for the outreach activities of the Centre of Quantum Technologies. Together with his CQT colleagues Christian Kurtsiefer and Antia Lamas-Linares, he has received the 2008 Singapore National Science Award for theoretical and experimental studies on quantum entanglement.

Recent publications

Contact details
Centre for Quantum Technologies
National University of Singapore
515, 3 Science Drive 2
Singapore 117543
Tel: +65 6516 2813
E-mail: physv@nus.edu.sg
Web: http://www.quantumlah.org/people/valerio

Centre for Quantum Technologies
National University of Singapore
The Centre for Quantum Technologies’ mission is to conduct interdisciplinary theoretical and experimental research into the fundamental limits to information processing. The discovery that quantum physics allows fundamentally new modes of information processing has required the existing theories of computation, information and cryptography to be superseded by their quantum generalisations. The CQT focuses on the development of quantum technologies for coherent control of individual photons and atoms and explore both the theory and the practical possibilities of constructing quantum-mechanical devices for the purpose of cryptography and computation.

In 2007, the Quantum Information Technology Group was selected as the core of the first Research Centre of Excellence in quantum information science and technology. Since then, the centre has attracted a number of researchers and continues to expand.

The CQT is funded by the Singapore National Research Foundation and the Ministry of Education. It is hosted by the National University of Singapore, but enjoys a significant autonomy both in pursuing its research goals and in governance. The Centre has its own Governing Board, a Scientific Advisory Board and is headed by Director Artur Ekert.

Facts of relevance for international research cooperation

Number of R&D personnel in your subunit as headcount: 3
Researchers from abroad currently working in your subunit: 2
International scientists to visit your subunit in 2008 staying for at least one week for research: 5
National researchers in your subunit currently involved in research projects with intl. cooperation partners: 1
Researchers in your subunit currently involved in research projects with Intl. cooperation partners: 2
Approximate proportion (in %) of internationally funded research projects in your subunit: -
Participation in international cooperation projects:

Expected role in future international cooperation projects: consortium member
Plasma Research Laboratory  
Physics Department  
University of Malaya

The activities of the Plasma Research Laboratory include teaching and research. Regarding the former, the Lab runs four experiments for the Physics Department of the University of Malaya, namely: Pulse Electronics; Gas Dynamic Experiment; Flash X-ray Experiment; and Plasma Emission Spectroscopy. The research of the Lab centres around the following types of plasma devices:  
• Dense Magnetized Plasmas  
• Transient Hollow Cathode Devices  
• Low Temperature Low Density Plasmas  
The emphasis of the research work is on the physics and applications of these devices. The Plasma Research Laboratory has established international collaborations with EPPRA in Courtaboeuf/ France, the Physics Department of Chulalongkorn University in Bangkok/Thailand and the School of Science at Walailak University in Nakhon-si-Thammarat/Thailand. The Plasma Research Laboratory is part of the Faculty of Science’s Physics Department. The Faculty of Science is inherited from Raffles College (opened 1929). Teaching in Kuala Lumpur started in 1957, but the Faculty of Science started official studies in the 1959/60 session not including physics. The Department of Physics was initiated in 1961.

Facts of relevance for international research cooperation

| Number of R&D personnel in your subunit as headcount: | 12 |
| Researchers from abroad currently working in your subunit: | 1 |
| International scientists to visit your subunit in 2008 staying for at least one week for research: | 2 |
| National researchers in your subunit having spent at least one study semester abroad: | 1 |
| Researchers in your subunit currently involved in research projects with int'l. cooperation partners: | 1 |
| Approximate proportion (in %) of internationally funded research projects in your subunit: | - |
| Participation in international cooperation projects: | - |
| Expected role in future international cooperation projects: | project partner |

Prof. Dr. Wong Chiow San  
Malaysia

Dr. Wong Chiow San is professor of physics at the University of Malaya (UM), leader of the UM’s Plasma Research Group and President of the Asian African Association for Plasma Training (AAAPT). His research focuses on plasma physics, particularly pulsed radiation sources and their applications, plasma systems for material processing and surface treatment as well as atmospheric discharges. Within these fields, he has published more than 150 papers, more than 80 of which appeared in refereed journals. Dr. Wong also has extensive experience in international cooperation with partners in Asia, Europe, Australia or Latin America. In 2005, Dr. Wong received the Malaysian Toray Science and Technology Award for his merits in the development of plasma technology in Malaysia. He is a Fellow of the Malaysian Academy of Sciences since 2007.

Recent publications


Contact details

Plasma Research Laboratory  
Physics Department  
University of Malaya  
50403 Kuala Lumpur  
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Web: http://fizik.um.edu.my/wcs/, http://fizik.um.edu.my/
Philippine Rice Research Institute

The Philippine Rice Research Institute (PhilRice) began as a research unit of the University of the Philippines, Los Baños in 1985, until it became a government-owned corporation attached to the Department of Agriculture. Although it was relocated to the Science City of Muñoz, Nueva Ecija, it still maintains a research center in Los Baños. PhilRice is the national leading agency for the planning, coordination, implementation, and monitoring of all rice research and development (R&D) activities in the Philippines. Its mission is to lead national efforts in rice R&D, technology promotion, capacity building, and policy advocacy to attain a sustainable, self-sufficient, and competitive rice economy. PhilRice’s R&D Programme is composed of 4 programs:

• Favorable Ecosystem (irrigated lowland)
• Unfavorable Ecosystem (rainfed lowland)
• Knowledge Management and Promotion
• Impact and Policy Research

Sixty-five percent of PhilRice’s 450 core staff belong to the R&D sector: 25 of them are PhD holders, 80 hold MS degrees, while others are BS graduates. Most of the PhDs obtained their degrees through fellowship and scholarship grants awarded by the Rockefeller Foundation, Ford Foundation, USAID, Fullbright-Hayes, Mombusho, and JICA, among many others. Many of PhilRice’s scientists and researchers are recipients of major national awards.

Recent publications

• Tuaño APP, LT Roferos, BO Juliano (200): Field Test for Apparent Amylose Content for Milled Rice Quality Classification, Philipp Agric Scientist, 2: 228 – 232.

Facts of relevance for international research cooperation

Number of R&D personnel in your subunit as headcount: 5
Researchers from abroad currently working in your subunit: -
International scientists to visit your subunit in 2008 staying for at least one week for research: -
National researchers in your subunit having spent at least one study semester abroad: -
Researchers in your subunit currently involved in research projects with intl. cooperation partners: 1
Approximate proportion (in %) of internationally funded research projects in your subunit: -
Participation in international cooperation projects:
• The use of PCR for variety identification of Philippine rices, a 12 month project with Dr. Ken’ichi Ohtsubo, Japanese National Food Research Institute in Tsukuba
• Relation of distribution of short chains of debranched indica rice starches differing in gelatinization temperature, a 12 month project with Dr. Yasunori Nakamura from the Faculty of Biological Resources at Akita Prefectural University, Japan
• Comparative content of tocols and gamma-oryzanol in brown and milled rices in normal and organic culture, 12 months, with Dr. Zhimin Xu, Louisiana State University, USA

Expected role in future international cooperation projects: project coordinator

Bienvenido O. Juliano, PhD
Philippines

Dr. Juliano is senior expert at the Philippine Rice Research Institute. His research focuses on screening methods for excellent-quality rice on the Philippines and the relationship among glycemic index, satiety index and an apparent amylose content of Philippine rices.

He earned a PhD in organic chemistry from Ohio State University in the US, then was a visiting professor at the University of Hong Kong and the University of Durham/England as well as a research fellow at the UC Berkeley and Michigan State University in the US.

Dr. Juliano is author and co-author of 390 publications and member of the Philippine National Academy of Science and Technology. For his work in rice chemistry and quality, he received the title National Scientist from the Philippine President in 2000 and the ASEAN Outstanding Scientist and Technologist Award in 1998.

In 1988, he was awarded the Thomas B. Osborne Medal from the American Association of Cereal Chemists.
The Research Center for Geotechnology (RCG) is part of the Indonesian Institute of Sciences (LIPI), with the responsibility to promote and advance research in the field of earth sciences and related technology. Today, the RCG comprises four divisions: Earth dynamics and geologic hazards, Earth resources and mineral engineering, Earth information systems and spatial management and Engineering geology and nature conservation. There are three operational (field) units: The Karangsambung Field Campus providing practical training in field geologic methods to geology students of Indonesian universities, The Liwa earthquake research unit and the Jampang experimental mine.

Besides conducting research and development in geosciences, the responsibilities of RCG include dissemination of scientific and technological developments to regional governments and to the industry. Field courses were held e.g. in carbonate sedimentation, deep-water sedimentation and reservoir potential of volcaniclastic sediments and field geologic methods for petroleum geologists. At present, the RCG is also active in the introduction and development of magneto-telluric (MT) methods for petroleum exploration in frontier areas and difficult/adverse terrains, and the combination and integration of different geophysical and remote sensing techniques.

Recent publications


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Dr. Sri Yudawati Cahyarini
Indonesia

Dr. Yudawati Cahyarini has a doctorate degree from the University of Kiel in Germany and works currently as a researcher at the Research Centre for Geotechnology at the Indonesian Institute of Sciences (LIPI). She is chief scientist of the Enggano-Indonesia coral drilling project to study the Indian Ocean’s role in climate change.

Her research interest is in the geochemical proxy analysis of coral skeleton. The studies of paleoclimate and paleoceanography focus on environmental changes in relation to pollution and sediment discharge, as well as the impact of agriculture to the coral reef waters. In 2006, she held the post of postdoctoral fellow at the Leibniz Institute fuer Meereswissenschaften in Kiel, Germany.

Her excellent research work has been awarded with several major research grants, for example from the Indonesian Toray Science Foundation (ITSF) in 2007 and from the International Science Foundation (IFS) in 2009.
Center for Environment Research Education and Development

The objective of CERED is to carry out its strategy for environmental and developmental research in Vietnam in co-operation with other organisations, both domestic and international. The focus of CERED’s work lies in finding the balance between environmental conservation and socio-economic development. The formation of a co-operative internal and international network of scientists in the field of environmental studies is also among its goals.

CERED is a non-governmental organisation (NGO) sponsored by the Vietnam Union of Science and Technology Associations (VUSTA). The Center was established in 1991. It employs a number of permanent staff in Hanoi, including its founding chairman/director, Dr. Nguyen Huu Ninh. Its associate staff includes a broad network of university professors and researchers in Vietnam.

CERED has established collaboration with, inter alia, UNEP, the World Meteorological Organization (WMO), IPCC, the International Geosphere-Biosphere Programme (IGBP), etc. The Center’s operating costs are covered by research contracts and by contributions from domestic and international donors. Among the funding agencies are, for example, Land-Ocean Interactions in the Coastal Zone (LOICZ), the UK Economic and Social Research Council, Toyota, UNEP, the British Council, UNDP, AusAID, the EU, the Foundation for the Advancement of Tropical Research of the Netherlands Organisation for Scientific Research (WOTRO), and UNU.

Facts of relevance for international research cooperation

Number of R&D personnel in your subunit as headcount: 17
Researchers from abroad currently working in your subunit: 3
International scientists to visit your subunit in 2008 staying for at least one week for research: 1
National researchers in your subunit having spent at least one study semester abroad: 3
Researchers in your subunit currently involved in research projects with intl. cooperation partners: 5
Approximate proportion (in %) of internationally funded research projects in your subunit: 80

Participation in international cooperation projects:


Expected role in future international cooperation projects: project coordinator

Dr. Nguyen Huu Ninh
Vietnam

Dr. Nguyen Huu Ninh is an environmental researcher and the director of the Center for Environment Research Education and Development. His main research interest is the climate change and the human dimension of sustainable development. He received his PhD from the Hungarian Academy of Sciences in Hungary in 1986 and subsequently, worked at the Centre for Biology of the Hungarian Academy of Sciences.

Dr. Nguyen Huu has published 85 scientific essays and reports and represented Vietnam in a series of international environmental programmes. He took part in the work of the International Geosphere-Biosphere Programme and is a member of the Intergovernmental Panel on Climate Change (IPCC).

As a member of the IPCC, in recognition of the panel’s work, in 2007, the Nobel Committee awarded him the Nobel Peace Prize. In 2007, he also received the medal for Achievement of Associations of Science and Technology, VUSTA (Vietnam), for his work in environmental science.

Recent publications


Contact details

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Adj. Assoc. Prof. Huck Hui Ng, PhD
Singapore

Dr. Ng is currently a senior group leader at the Genome Institute of Singapore and an adjunct associate professor with the Department of Biological Sciences at the National University of Singapore and the School of Biological Sciences of Nanyang Technological University. He has spent more than a decade in research on understanding the intricacies of gene regulation and how they are related to cell biology. Dr. Ng’s laboratory studies the regulation of gene expression in stem cells. His group is one of the pioneers, who used chromatin immunoprecipitation to elucidate the targets of transcription factors in living cells.

Dr. Ng’s publications in a variety of journals have registered over 4000 citations. For his outstanding contribution to research on cellular circuits that are crucial in regulating genome stability and cell division, Dr. Ng received the 2007 National Science Award. He was also awarded the Singapore Youth Award for S&T in 2005 and the Young Scientist Award in 2004.

Recent publications

Lisa Ng is a Principal Investigator at the Singapore Immunology Network and an adjunct assistant Professor at the Department of Biochemistry, National University of Singapore.

Prof. Ng has spent more than a decade working on viral diseases from academia to public health in developing a framework to deliver broad-range capability for disease preparedness.

She joined the Singapore Immunology Network (SIgN) in 2007 and her laboratory aims to gather knowledge on the immune responses mounted against arboviruses to develop new immune-based preventive and treatment strategies which could be applied to other diseases in the region. Her work involves an integrated network at the scale of Singapore with regional and international implications through multiple collaborations.

In addition to numerous other awards, Lisa received the ASEAN Young Scientist and Technologist Award in 2008 for her research on Asia’s infectious diseases.

Recent publications

- Ng LFP, Chow A, Sun YJ, Kwek DJC, Lim PL, Dimatatac F, Ng LC, Ooi EE, Choo KH, Her ZS, Kourilsky P, Leo YS (2009): IL-1β, IL-6, and RANTES as Biomarkers of Chikungunya Severity, PLoS ONE, 4: e4261.

Contact details

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The IMCB was established in 1987 at the National University of Singapore (NUS) before becoming an autonomous research institute (RI) of A*STAR. Its mission is to develop and foster a vibrant research culture for cutting-edge basic biomedical sciences and for training high-quality PhD students for the flourishing biotechnology and pharmaceutical industries in Singapore. IMCB graduates, post-docs, principal investigators and alumni are much sought-after and have consistently found excellent positions in academic and industrial organizations.

Funded primarily by Biomedical Research Council (BMRC) of A*STAR, IMCB now boasts about 40 core research labs and eight core facility units consisting of over 400 research scientists in total. IMCB’s research activities focus on six major fields: Cell Biology, Developmental Biology, Structural Biology, Infectious Diseases, Cancer Biology and Translational Research.

IMCB’s achievements include being part of the international consortium that successfully sequenced the entire pufferfish (Fugu rubripes) in 2002. IMCB was awarded the Nikkei Prize 2000 for Technological Innovation in recognition of its growth into a leading international research centre and its collaboration with industry and research institutes worldwide. IMCB continues to publish in renowned international journals, with more than 1300 publications to its credit since 1987.

### Facts of relevance for international research cooperation

- **Number of R&D personnel** in your subunit as headcount: 9
- **Researchers from abroad** currently working in your subunit: 2
- **International scientists to visit** your subunit in 2008 staying for at least one week for research: 1
- **National researchers** in your subunit having spent at least one study semester abroad: 1
- **Researchers** in your subunit currently involved in research projects with **intl. cooperation partners**: 2
- Approximate proportion (in %) of **internationally funded research projects** in your subunit:
- Participation in **international cooperation projects**: -
- **Expected role** in future international cooperation projects: project partner

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**Contact details**

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As a research institute of A*Star, the Singapore Institute of Manufacturing Technology (SIMTech) develops high-value manufacturing technology and human capital to enhance the competitiveness of Singapore’s manufacturing industry.

SIMTech has completed more than 880 projects with more than 410 companies in the electronics, semiconductor, precision engineering, aerospace, automotive, marine, logistics and other sectors.

Roles:
- To create intellectual capital through the generation, application and commercialisation of advanced manufacturing science and technology.
- To nurture research scientists and engineers by providing opportunities to do use-inspired research for industry.
- To contribute to Singapore’s industrial capital by collaborating in projects and sharing research expertise and infrastructure with the industry.

In its quest to develop technology to meet the needs of the industry, SIMTech has, on its own or in collaboration with research and industry partners, created several innovative and award-winning research achievements. In addition to three research programmes and an innovation and commercialisation department, SIMTech comprises eight research groups organized within the following three categories: manufacturing process, automation and industrial informatics.

Dr. Chua received his PhD in Mechanical engineering from the National University of Singapore in 2005 and is currently a research engineer in A*Star’s Singapore Institute of Manufacturing Technology (SIMTech). He performs research in precision metal forming and casting especially in the area of light metal alloys processing. His other research interests include the understanding of deformation mechanism and metallurgical behaviour of nanostructured metals and alloys. Since 2005, he has published/presented several papers in international journals and conferences.

In 2008, Dr. Chua received the Singapore National Technology Award together with his colleagues in the Liquid Forging Team, namely Dr. John Yong, Steven Tong and Ho Meng Kwong. The Award was dedicated to this group for their outstanding contributions to the development of liquid forging technology for the manufacturing of high-strength components.

Among other things, Dr. Chua is interested in international cooperation in order to share the common goal of saving the world from global warming through the development of energy saving technology.

Recent publications


Contact details

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Facts of relevance for international research cooperation

| Number of R&D personnel in your subunit as headcount: | 368 |
|Researchers from abroad currently working in your subunit: | 37 |
|International scientists to visit your subunit in 2008 staying for at least one week for research: | 6 |
|National researchers in your subunit having spent at least one study semester abroad: | 3 |
|Researchers in your subunit currently involved in research projects with intl. cooperation partners: | 60 |
|Approximate proportion (in %) of internationally funded research projects in your subunit: | 20 |
|Participation in international cooperation projects: | - |
|Expected role in future international cooperation projects: project partner |
Chemical Engineering as a field of research at Chulalongkorn University was first established in 1942, then ceased in 1947 because of a lacking demand from Thai industries at that time. Finally, it was re-established in 1961 offering chemical engineering together with industrial engineering, becoming a department in its own right in 1975. Over the past decades, the department has evolved to be the premier chemical engineering department in the country, both in terms of teaching and research. With its thirty-six faculty members, it is the most endowed department in terms of human resources and staff experience. Over 1,400 students have graduated from the department up to today.

Its mission is to:
- Provide high-quality undergraduate and graduate education,
- Generate knowledge and develop technology through excellence in research,
- Contribute to the sustainable development of the nation and the quality of life of the people.

The department emphasizes interdisciplinary research and offers a wide variety of modern laboratories. Its ten research laboratories cover all the important areas of chemical engineering research and are organized in the following five clusters:
- Bio- and Enviro-Chemical Engineering
- Catalysis and Reaction Engineering
- Process Control and Process Systems Engineering
- Material Engineering
- Chemical Engineering Fundamentals

Recent publications

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Dr. Nurul Taufiqu Rochman, M. Eng.
Indonesia

Dr. Taufiqu Rochman is Senior Researcher at the Research Center for Physics at the LIPI PUSPITEK, Indonesia. He graduated from Kagoshima University in Japan, and worked as a post doc for the Japan Science and Technology Corporation (JST) and the Japan Society for Promotion of Science (JSPS). Since 2005, he acts as chairman for the Indonesian Society for Nanotechnology. Currently, his major research interests are the development of a mechanical system of high energy milling for nanostructured material production, the development of fine grained steels prepared by MA-PM, and removing Pb for copper alloys (scrap) containing Pb using the compound separation method.

In 2009, he received the Science and Technology Award for his work on “Development of Nanomaterials Based on Local Resources Prepared by New HEM”. Further awards received include the Ganesha Widya Jasa Adiutama Award in 2009 and the Best Innovations & Best Ideas In Business Award in 2005.

Recent publications

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Industrial Machinery and Instruments Holding (IMI Holding)

The Industrial Machinery and Instruments Holding is organized in form of parent-subsidiary company complex, in which the parent company is an S&T enterprise aiming at linking science, research, training and production. Its fields of activities are:

1. Science and research:
   • Research, development and application of mechatronics in industry, consumerware, medicine and environment.
   • Research and design of high-tech breakthrough products and non-conventional technologies
   • Design and testing of industrial chips, technical and management software
   • S&T consultancy in industrial and environmental fields.
2. Training:
   • Training engineering doctors in mechanical engineering and mechatronics
   • Training engineers in mechatronics (in co-operation with the College of Technology)
3. Production and Trade:
   • Rapid transfer of scientific achievements to the production of new products with high added value
   • Manufacturing, trading and installing of machines, technological equipment in the fields of industry, consumerware, medicine and environment
   • Supply of automation solutions and systems, chips, technical and management software
   • Provision of investment consultancy and trading activities

Facts of relevance for international research cooperation

- Number of R&D personnel in your subunit as headcount: 231
- Researchers from abroad currently working in your subunit: -
- International scientists to visit your subunit in 2008 staying for at least one week for research: 2
- National researchers in your subunit having spent at least one study semester abroad: 20
- Researchers in your subunit currently involved in research projects with intl. cooperation partners: 2
- Approximate proportion (in %) of internationally funded research projects in your subunit: -
- Participation in international cooperation projects:
  • CHIP, a 12 month project with Integral, Belarus on chip design and testing
  • X-Ray, 24 month project with Medigration AG, Germany and Swissray, Switzerland on a research, design and manufacture of x-ray machines for hospitals
- Expected role in future international cooperation projects: project coordinator

Prof. Dr. Truong Huu Chi
Vietnam

Dr. Truong Huu Chi is group chairman and president of the Industrial Machinery and Instruments (IMI) Holding in Hanoi. In 1990, he earned a PhD in Engineering from TU Chemnitz/Germany. His research focuses on Mechanical Engineering and Mechatronics with a focus on CNC cutting and milling. Among his scientific output are several national and international publications and three patents, filed in Vietnam and Germany.

Dr. Truong is a member of the National Council of Science & Technology Policy (NCSTP) of Vietnam and was Member of the XI National Assembly.

His research in design and manufacturing of mechatronic products was decorated with the Ho Chi Minh S&T Award in 2005. In 2001, he received the VIFOTECH Award for his work on manufacturing a gas metal cutting machine.

Recent publications


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Prof. Dr. Somchai Wongwises
Thailand

Dr. Wongwises is full professor at the Department of Mechanical Engineering of the King Mongkut’s University of Technology Thonburi and head of the Fluid Mechanics, Thermal Engineering and Multiphase Flow Research Lab (FUTURE). He earned a Doctor of Engineering in Mechanical Engineering from Chulalongkorn University and a Doktor-Ingenieur in Process Engineering from the University of Hannover in Germany.

His research focuses on two-phase flow, heat and mass transfer enhancement, thermodynamics, refrigeration and air-conditioning. In 2006, he was awarded the Outstanding Scientist Award from the Thai Foundation for the Promotion of Science and Technology under the Patronage of His Majesty the King. In 2004, he won the Distinguished Researcher Award in Engineering and Industrial Research of the National Research Council of Thailand.

Dr. Wongwises has published more than 100 papers in international journals.

Recent publications

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Prof. Thiravat Hemachudha, MD
Thailand

Dr. Thiravat is professor of neurology at the Department of Medicine and the Molecular Biology Center for Neurological Diseases of the Chulalongkorn University Hospital. Furthermore, he is the director of the WHO Collaborating Center for Research and Training on Viral Zoonoses. He studies disease transmission from animals to humans, particularly viruses, and currently works on encephalitis, rabies and, generally, biomarker proteomics. Prof. Thiravat has published extensively, especially on rabies and neurological diseases. He is a member of the New York Academy of Sciences and the Institut Pasteur’s Scientific Committee. In 2004, he received the Thailand Outstanding Scientist Award for his work on rabies and other encephalitides.

Prof. Thiravat is interested in building up concrete networks for research on emerging infectious diseases by offering MSc and PhD students exchange opportunities with mutual respect and equity.

Recent publications

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Assoc. Prof. Khie Khiong, PhD
Indonesia

Dr. Khie Khiong is associate professor at the Immunology Division of Health (PPIK), Medical Faculty, Maranatha Christian University in Bandung/Indonesia with a current research focus on molecular mechanism of Buah Merah (Red fruit or Pandanus conoideus Lam) extract in preventing colitis and colorectal cancer induced in mice by DSS. He speaks four languages (Bahasa Indonesia, English, Japanese and Mandarin) and is convinced of the importance of creating academic networks with fellow institutions not only for himself, but for his home university and country.

In 2008, he received the RISTEK-Kalbe Science Award in the category “Best Research” for his work on “Spontaneous Mutation of Rag1 in MM Mice: A Model for the Omenn Syndrome”.

Recent publications

Contact details
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With the mission to be the center of excellence in cardiovascular service, education and research, the National Cardiovascular Center Harapan Kita (NCC-HK) is the top referral for cardiovascular disease services (diagnosis, treatment), education (in collaboration with the Department of Cardiology & Vascular Medicine, Faculty of Medicine, University of Indonesia) and research. In the research area, NCC-HK will be the first institution in Indonesia, which consists of the facilities for basic-translational and clinical researches.

Currenty, Dr. Budhi Raharjo is Fellow of Clinical Cardiology at the Department of Cardiology and Vascular Medicine at the Faculty of Medicine of the University of Indonesia. From 2006 to 2007 he was head of the new Cardiovascular Research Centre at the National Cardiovascular Center in Harapan Kita, Jakarta, where he was in charge of the design and development of the center.

He received his PhD from Kobe University Graduate School of Medicine, Japan for his work on the molecular basis of cardiovascular diseases. His current research focuses on pulmonary hypertension, heart failure, the Endothelin systems, the Renin-Angiotensin and Bradykinin systems, and genetic polymorphisms.

He received the Young Investigator Award for Foreign Researcher from the Japanese Circulation Society in 2004, and The Best Research Awards at the National Medical Research Competition held by the State Ministry of Research & Technology of Indonesia – Kalbe Farma Tbk., Jakarta in 2008.

Recent publications
Dr. Gunawan Indrayanto is a professor of pharmaceutical biology at the Faculty of Pharmacy at Airlangga University. Furthermore, he is part of the Plant Biotechnology Research Group at the Department of Pharmacognosy and Phytochemistry. He is researching the metabolite profiling of Indonesian medicinal plants, making chromatographic analysis and its validation, and he is studying secondary metabolite production as well as the bioremediation using plant tissue cultures.

Dr. Gunawan Indrayanto received his PhD at the University of Tübingen in Germany in 1983. In 2008, he was nominated as Leading Scientist by COMSTECH for his work in medical sciences, and has been nominated as “Dosen berprestasi dengan pengakuan nasional/internasional” (Nationally and internationally highly recognized professor) by the rector of Airlangga University. He appreciates cooperation with EU colleagues on the topic of natural product chemistry and related sciences.

Recent publications


Facts of relevance for international research cooperation

- Number of R & D personnel in your subunit as headcount: 34
- Researchers from abroad currently working in your subunit: -
- International scientists to visit your subunit in 2008 staying for at least one week for research: 1
- National researchers in your subunit having spent at least one study semester abroad: 1
- Researchers in your subunit currently involved in research projects with intl. cooperation partners: 2
- Approximate proportion (in %) of internationally funded research projects in your subunit: 10
- Participation in international cooperation projects:
  - Ginger’s PTC on in-vitro cultures of Ginger, a 5 year project in cooperation with Prof. Chan Lai Keng, Universiti Sains Malaysia, Penang/Malaysia
  - Biotransformation – Biotransformation of Mefenamic Acid by suspension cultures of Solanum mammosum, a 6 month project in cooperation with Prof. Mary Garson, University of Queensland, Australia

Expected role in future international cooperation projects: project partner

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The Department of Parasitology was established under the Department of Social Preventive Medicine (SPM) in the year 1964, a year after the establishment of the Faculty of Medicine, University of Malaya. Today, the Department has twelve academic and twelve support personnel. There are three full professors, four associate professors, two senior lecturers, one lecturer, one contract senior lecturer and one SLAB trainee lecturer. The support staff includes, among others, a scientific officer and six medical laboratory technologists.

The Department of Parasitology places utmost importance in research on parasitic diseases, especially rampant, remerging and emerging parasites. The department has acquired a series of grants and translated its activities in the form of publications and the development of new diagnostic kits. To give a few examples, it has contributed to the Rapid Brugia malayi filariasis kit, which has been developed and patented by Universiti Sains Malaysia. A rapid test for Blastocystis called Blastokit has been developed and is in the process of obtaining patenty. Moreover, a rapid method for the detection of Acanthamoeba from corneal scrapings has been developed in the laboratory.

Facts of relevance for international research cooperation

Number of R&D personnel in your subunit as headcount: 18
Researchers from abroad currently working in your subunit: 1
International scientists to visit your subunit in 2008 staying for at least one week for research: 2
National researchers in your subunit having spent at least one study semester abroad: 2
Researchers in your subunit currently involved in research projects with intl. cooperation partners: 3

Participation in international cooperation projects:

- Phenogeno blasto ("Phenotypic and genotypic studies on Blastocystis"), a 36 month project with the Scottish Parasite Diagnostic Lab, Glasgow/Scotland
- Reproductive processes in Blastocystis, a 12 month project with the Scottish Parasite Diagnostic Lab, Glasgow/Scotland
- Blastocystis in sewage samples, a 12 month project with the Scottish Parasite Diagnostic Lab, Glasgow/Scotland

Expected role in future international cooperation projects: project partner

Recent publications

Dr. Muhilal
Indonesia

Dr. Muhilal is an expert researcher in nutrition at the Nutrition and Food R&D Center at the National Institute of Health Research and Development (NIHRD) of the Ministry of Health. Furthermore, Dr. Muhilal is professor of nutrition at the Faculty of Medicine of the University of Padjadjaran in Bandung, and senior lecturer of nutrition at 5 universities in Indonesia. He received his PhD in Nutritional Biochemistry at the University of Liverpool in the United Kingdom in 1974. Besides promoting research within Indonesia (e.g., as a member of the National Research Council from 1992 to 2004), he has been active as a nutrition consultant for international organizations, such as the WHO, USAID or UNICEF. In 2007, he received the COMSTECH award (Indonesia’s Leading Scientist & Engineer) as well as the “MOH RI Award for Leading in Continuing Research on Vitamin A” in 1990.

Recent publications

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Prof. Dr. Thong Kwai Lin
Malaysia

Dr. Thong Kwai Lin earned her PhD in Molecular Microbiology from University of Malaya and now serves as professor at the university’s Institute of Biological Sciences. Within the Microbiology Division, she heads the Biomedical Science and Molecular Typing Laboratory.

Prof. Thong is performing research on the development of MLVA for subtyping Salmonella enterica and Vibrio cholerae, the construction of pulsotypes of Salmonella in Malaysia as well as the genotypic and phenotypic characterisation of drug resistant bacteria.

She has published extensively in national and international journals and her work has earned her a number of prestigious awards, among others the Malaysian Toray Science Award of the year 2007, the Gold Medal of the Universiti Malaya Research and Innovation Expo in 2008 and the 19th ITEX Gold Medal Award in 2008.

Recent publications

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Facts of relevance for international research cooperation

Number of R&D personnel in your subunit as headcount: 8
Researchers from abroad currently working in your subunit: -
International scientists to visit your subunit in 2008 staying for at least one week for research: -
National researchers in your subunit having spent at least one study semester abroad: 1
Researchers in your subunit currently involved in research projects with intl. cooperation partners: 1
Approximate proportion (in %) of internationally funded research projects in your subunit: 10
Participation in international cooperation projects:
• PulseNet Asia Pacific, a 12 month project with the National Institute of Infectious Disease, Japan, and CDC, Taiwan
Expected role in future international cooperation projects: consortium member
Dr. Do Khac Thinh is head of the Institute of Agricultural Science at the Southern Vietnam’s Department of Plant Genetics and Breeding. In his scientific capacity, he works mainly in the field of rice research in relation to climate change, yield and food quality and, in addition, studies nuclear techniques and biotechnology for the breeding of new orchid varieties. In 2005, he has received the National Prize on Science & Technology for his work on “Breeding & development of mutant rice variety VND 95-20 with short duration”, the National Prize of Labor Medal in 2008 for “Breeding & development of new rice varieties for production” and the Ton Duc Thang Prize in 2007 for “Rice research & transferring new techniques for production”.

Through international research activities, Dr. Do Khac Thinh states that he would like to share experiences with other scientists. In the future, research particularly needs to pay attention to problems of climate change.

Recent publications


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Dr. Do Khac Thinh
Vietnam

The Institute of Agricultural Science for Southern Vietnam is one of the oldest research institutes in Vietnam. It was established on the basis of the “Institut des Recherches Agronomiques de l’Indochine”, which had been founded in 1925. IAS is a government institution under the jurisdiction of the Ministry of Agriculture and Rural Development, responsible for the research and application of new technologies in agriculture and rural development in Southern Vietnam. It is a multi-disciplinary research institution on crops, livestock and agricultural economics.

Presently, IAS has 450 staff, with more than 250 graduates and post-graduates. The institute is organized into ten research departments, seven applied research centers, and three supporting offices. The IAS’ Department of Plant Genetics and Breeding has the mandate to conserve plant gene sources, to perform plant genetics and breeding towards sustainable development, to offer short- and long-term training on plant genetics and breeding for local and international cooperation in the field of R&D in plant genetics and breeding.

Its research targets are food crops, ornamental plants and tropical flowers, vegetable crops and industrial crops.

### Facts of relevance for international research cooperation

| Number of R&D personnel in your subunit as headcount: | 22 |
| Researchers from abroad currently working in your subunit: | 1 |
| International scientists to visit your subunit in 2008 staying for at least one week for research: | 2 |
| National researchers in your subunit having spent at least one study semester abroad: | 2 |
| Researchers in your subunit currently involved in research projects with intl. cooperation partners: | 4 |

Approximate proportion (in %) of internationally funded research projects in your subunit: 10%

Participation in international cooperation projects:

- Trial and Development of New Varieties in the Central Highlands of Vietnam, a 24 month research contract (No: 14819) with the International Atomic Energy Agency (http://cra.iaea.org/)

Expected role in future international cooperation projects: project partner

ASPOTLIGHT ON: AGRICULTURE, FORESTRY, FISHERIES AND ALLIED SCIENCES
Prof. Maggy Thenawidjaja Suhartono, PhD
Indonesia

Prof. Thenawidjaja Suhartono is professor at the Faculty of Agricultural Technology at Bogor Agricultural University and visiting professor at the Faculty of Biotechnology at the Catholic University of Atmadjaja. She received her PhD at the Department of Biochemistry and Biophysics of the University of Hawaii, USA, and has had international cooperation activities with colleagues in The Netherlands, Australia, England and South Korea. Her current professional interest lies in research about microbial enzymes, fibrinolytic enzymes (lumbrokinase) as well as silicatein and similar proteins.

She has received the National Research Award in 2008 from RISTEK Kalbe and has been selected as one of 100 Indonesian Inventors by the Indonesian Ministry of Research and Technology in 2008 to receive a research patent on “Recombinant protease of Indonesian bacteria”.

Furthermore, she acts as an Indonesian Supervisor of Post-Doc grantees from KNAW (Royal Netherlands Academy of Arts and Science).

Recent publications


Department of Food Science and Technology
Faculty of Agricultural Technology
Bogor Agricultural University
P.O. BOX 220 Darmaga Campus IPB
BOGOR 16002
Tel. / Fax: +62 251 8626725
E-mail: mthenawidjaja@yahoo.com
Web : http://www.ipb.ac.id/
http://www.atmadjaja.ac.id/

Facts of relevance for international research cooperation

Number of R&D personnel in your subunit as headcount: 8
Researchers from abroad currently working in your subunit: -
International scientists to visit your subunit in 2008 staying for at least one week for research: -
National researchers in your subunit having spent at least one study semester abroad: 1
Researchers in your subunit currently involved in research projects with intl. cooperation partners: 1
Approximate proportion (in %) of internationally funded research projects in your subunit: 10
Participation in international cooperation projects:
- Identification and Characterization of Endogenous Ni-Hyperaccumulating Species from Sulawesi, Indonesia, in cooperation with Dr. Mark Aarts, Laboratory of Genetics, Wageningen University, The Netherlands

Expected role in future international cooperation projects: project partner

Contact details

Department of Food Science and Technology
Faculty of Agricultural Technology
Bogor Agricultural University
P.O. BOX 220 Darmaga Campus IPB
BOGOR 16002
Tel. / Fax: +62 251 8626725
E-mail: mthenawidjaja@yahoo.com
Web : http://www.ipb.ac.id/
http://www.atmadjaja.ac.id/

Department of Food Science and Technology
Faculty of Agricultural Technology
Bogor Agricultural University
P.O. BOX 220 Darmaga Campus IPB
BOGOR 16002
Tel. / Fax: +62 251 8626725
E-mail: mthenawidjaja@yahoo.com
Web : http://www.ipb.ac.id/
http://www.atmadjaja.ac.id/
College of Veterinary Medicine (CVM)
University of the Philippines Los Baños

At the time of its establishment in 1908, CVM was the first veterinary school in the country, and from 1910 to 1960, it was the sole source of the country’s veterinary manpower. CVM aims to strengthen its leadership in veterinary medicine education, research and extension, and to become one of Asia’s leading institutions in the field. It participates in multidisciplinary activities for promotion and enhancement of biomedical and agricultural concerns. CVM undertakes research in various fields of veterinary medicine, including animal production and veterinary public health, and provides client-oriented veterinary services in urban and rural areas. In 2000, CVM-UPLB was designated a Center of Excellence (COE) by the Commission on Higher Education (CHED) in the Philippines.

CVM has evolved into a research-based institution of academic distinction. It embraces the university’s purpose, that is, to continually build strong capabilities to meet the expanding needs of the country for veterinary manpower, and to also generate technologies that can benefit the nation especially at the grassroots level.

At present, CVM employs 101 people consisting of 42 faculty members, 52 administrative staff and 7 research and extension personnel. CVM is the only veterinary school in the country offering an MSc degree in Veterinary Medicine.

Facts of relevance for international research cooperation

| Number of R&D personnel in your subunit as headcount: | 30 |
| Researchers from abroad currently working in your subunit: | - |
| International scientists to visit your subunit in 2008 staying for at least one week for research: | 4 |
| National researchers in your subunit having spent at least one study semester abroad: | 1 |
| Researchers in your subunit currently involved in research projects with intl. cooperation partners: | 1 |
| Approximate proportion (in %) of internationally funded research projects in your subunit: | 10 |

Participation in international cooperation projects:
- Environmental Animal Health and Production in Laguna Province, Philippines, a 12 month project with the School of Environmental Science and Management (SESAM); the College of Agriculture, UPLB; the Bureau of Animal Industry (BAI), Philippines; and the Food and Agriculture Organization (FAO)

Expected role in future international cooperation projects: project partner

Recent publications

Contact details
Office of the Dean
College of Veterinary Medicine
University of the Philippines Los Baños
College, Laguna, Philippines 4031
Tel.: +63 2 913 9715, +63 2 438 8210
Fax: +63 49 536 2730
E-mail: cavaldez@uplb.edu.ph
docvm@uplb.edu.ph
Web: http://www.old.uplb.edu.ph/cvm/
Polyco Group and Omega Institute

The Polyco Group – Polytechnical, mechanical, thermal, electrical and refrigeration company – specializes in designing, manufacturing, installing, technological consulting and technological transferring in the following fields:

- Equipment for agricultural and foodstuff industries, especially for brewery, alcohol and dairy plants etc.
- Pressure vessels
- Steam boilers
- Refrigeration
- Air-Conditioning system
- Electrical, measuring and automation systems

Polyco has consulted, manufactured, installed and modernized many factories with a lot of capacity in Vietnam, especially breweries, milk, fruit and drinking factories.

The Institute of Science, Technology and Training (Omega Institute) has been established with the aim of national and international S&T cooperation and training for highly-technological labour sources. The main fields of research are mechanical techniques, measurement, heat technique, automation techniques and energy saving.

Recent publications


Facts of relevance for international research cooperation

Number of R&D personnel in your subunit as headcount: 750
Researchers from abroad currently working in your subunit: -
International scientists to visit your subunit in 2008 staying for at least one week for research: 40
National researchers in your subunit having spent at least one study semester abroad: 5
Researchers in your subunit currently involved in research projects with intl. cooperation partners: 15
Approximate proportion (in %) of internationally funded research projects in your subunit: 40
Participation in international cooperation projects:
- Forming a Micro Electro Mechanical System (MEMS) R&D Center to Promote Advanced Technology Industry in Vietnam, with Ritsumeikan University, Kyoto/Japan
- Cooperation with GPDM, Rockwell Automation, and KHS AG

Expected role in future international cooperation projects: project partner

Prof. Dr. Dinh Van Nha
Vietnam

Dr. Nha received an Engineering degree in Moscow in 1972 and his PhD in 1975 from the Moscow Civil Constructional University in Russia. He worked as a post-doc at Delft University of Technology in Holland in 1985. His main research interest is in the field of automation and production engineering, especially regarding agricultural product and food processing. Dr. Nha is the director of the Research Center of Automation at Hanoi University of Technology, the director of the Institute of Science Technology & Training OMEGA, vice chairman of the Vietnam Automation Association, and the vice general director of the POLYCO GROUP.

He received the Ho Chi Minh Award of Technology and Science in 2005 and, in the same year, won the Gold Medal of The World Intellectual Property Organization WIPO AWARD CERTIFICATE of The United Nations. He further received twice the high-ranking Vietnam National VIFOTEC AWARD in 2000 and 2004.

Contact details

Polyco Group and Omega Institute
18 Dam Hong, Khuong Dinh, Thanh Xuan Hanoi
Tel.: +84 438217780
E-mail: dovha@vnn.vn, nhadv@fpt.vn, nhadvomega@gmail.com

Polyco Group and Omega Institute
18 Dam Hong, Khuong Dinh, Thanh Xuan Hanoi
Tel.: +84 438217780
E-mail: dovha@vnn.vn, nhadv@fpt.vn, nhadvomega@gmail.com
The Department of Mathematics aims to
• Provide excellent mathematics education to both science and non-science students that will enable them to make significant contributions to the advancement of the country
• Cultivate a culture of research and professionalism that will contribute to the country’s progress as well as to personal growth and development of department members
• Develop outstanding mathematicians, mathematics educators, and mathematics professionals who will become leaders in shaping the country’s future
• Strengthen collaboration in the area of mathematics education as well as with other disciplines
• Encourage and advance links with business and industry
• Increase interest and commitment among students to pursue careers in mathematics

The Department’s research areas are:
• Algebraic Combinations: Design, Coding, Graph and Group Theory
• Computing / Mathematical Modeling: Cellular Automata and Nonlinear Dynamics, Modeling and Simulation of Complex Systems, Network and High-Performance Scientific Computing
• Mathematics Education: Mathematics Teaching Education, Cognition, Cultural Studies in Mathematics, Students Achievement in Mathematics

Facts of relevance for international research cooperation
Number of R&D personnel in your subunit as headcount: 21
Researchers from abroad currently working in your subunit: -
International scientists to visit your subunit in 2008 staying for at least one week for research: -
National researchers in your subunit having spent at least one study semester abroad: 5
Researchers in your subunit currently involved in research projects with Intl. cooperation partners: 6
Approximate proportion (in %) of internationally funded research projects in your subunit: 10
Participation in international cooperation projects: -
Expected role in future international cooperation projects: project partner

Recent publications
### Indonesia

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>Award</th>
<th>Research focus</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Nurul Taufiqu Rochman, M. Eng.</td>
<td>Research Centre for Physics, Indonesian Institute of Sciences</td>
<td>Science and Technology Award</td>
<td>Development of Nano-materials Based on Local Resources Prepared by New HEM</td>
<td>2009</td>
</tr>
<tr>
<td>Dr. Tri Ari Penia Kresnowati</td>
<td>Bandung Institute of Technology (ITB)</td>
<td>L’ORÉAL-UNESCO for Women in Science</td>
<td>Health/stem cells for therapeutic treatment</td>
<td>2008</td>
</tr>
<tr>
<td>Dr. Indrayanto Gunawan</td>
<td>Airlangga State University</td>
<td>Comstech Award</td>
<td>Pharmacy</td>
<td></td>
</tr>
<tr>
<td>Dr. Muhilal</td>
<td>Food and Nutrition Research Institute, Ministry of Health</td>
<td></td>
<td>Nutrition</td>
<td></td>
</tr>
<tr>
<td>Dr. Terry Mart</td>
<td>University of Indonesia</td>
<td></td>
<td>Physics</td>
<td></td>
</tr>
<tr>
<td>Dr. Effendi</td>
<td>University of Malang</td>
<td></td>
<td>Chemistry</td>
<td></td>
</tr>
<tr>
<td>Dr. Tija May On</td>
<td>Bandung Institute of Technology (ITB)</td>
<td></td>
<td>Physics</td>
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<tr>
<td>Dr. Koo Hendrik Kurniawan</td>
<td>University of Trisakti</td>
<td></td>
<td>Applied Physics</td>
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<tr>
<td>Khie Khiong, S.Si., M. Pharm. Sc., Ph.D.</td>
<td>Immunology Division of Health (PPWK), FK Health Faculty, University of Maranatha</td>
<td>RISTEK-KALBE Science Award</td>
<td>Pharmacy</td>
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<tr>
<td>Sunu Budhi Raharjo, MD, PhD</td>
<td>Yayasan Harapan Kita Hospital</td>
<td></td>
<td>Role Of Endothelin-Converting Enzyme-1 And Bradykinin In Hypoxia-Induced Pulmonary Hypertension</td>
<td></td>
</tr>
<tr>
<td>Prof. Maggy Thenawidjaja Suhartono</td>
<td>Bogor Institute of Agriculture (IPB)</td>
<td></td>
<td>Chitosanase from Indonesian Bacillus licheniformis MB-2: Enzyme characteristics and application in the production of bioactive Chitooligosaccharides</td>
<td></td>
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<tr>
<td>Dr. Sri Yudawati</td>
<td>Indonesia Institute of Science (LIPI)</td>
<td>Japanese-funded Indonesia Toray Science Foundation (ITSF)</td>
<td>Physics/The Indian Ocean Role to the Indonesian Regional Climate Paleo Perspective</td>
<td>2007</td>
</tr>
<tr>
<td>Dr. Julisasi Tri Hadiah</td>
<td>Indonesia Institute of Science (LIPI)</td>
<td>International Basic Sciences Programme – UNESCO</td>
<td>Diversity and Phylogeny of Elatostema</td>
<td>2005</td>
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## Malaysia

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>Award</th>
<th>Research focus</th>
<th>Year</th>
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</thead>
<tbody>
<tr>
<td>Prof. Dr. Suresh Kumar</td>
<td>Universiti Malaya</td>
<td>MTSF Science and Technology Award</td>
<td>Medical parasitology</td>
<td>2008</td>
</tr>
<tr>
<td>Prof. Dr. Abdul Latif Ahmad</td>
<td>Universiti Sains Malaysia</td>
<td></td>
<td>Membrane Separation Technology, Wastewater Treatment, Separation Technology</td>
<td></td>
</tr>
<tr>
<td>Prof. Dr. Harith Bin Ahmad</td>
<td>Akademi Sains Malaysia, Universiti Malaya</td>
<td></td>
<td>Photonics and Laser Technologies</td>
<td>2007</td>
</tr>
<tr>
<td>Prof. Dr. Thong Kwai Lin</td>
<td>Universiti Malaya</td>
<td></td>
<td>Molecular Microbiology of Foodborne and Nosocomial Bacterial Pathogens</td>
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</tr>
<tr>
<td>Prof. Dr. Chua Kaw Bing</td>
<td>Kementerian Keshatan Malaysia</td>
<td></td>
<td>Clinical and Molecular Virology</td>
<td>2006</td>
</tr>
<tr>
<td>Prof. Dr. Roslan Abd Shukor</td>
<td>Universiti Kebangsaan Malaysia</td>
<td></td>
<td>Condensed Matter Physics – High Temperature Superconductivity</td>
<td></td>
</tr>
<tr>
<td>Prof. Dr. Wong Chiow San</td>
<td>Universiti Malaya</td>
<td></td>
<td>Plasma technology, pulse power and gas discharge physics</td>
<td>2005</td>
</tr>
<tr>
<td>Prof. Dr. Noraieni Haji Mokhtar</td>
<td>MOSTI</td>
<td></td>
<td>listed on Pusat Sains Negara’s website on inventiveness</td>
<td>2004</td>
</tr>
<tr>
<td>Dr. Kaida Bin Khalid</td>
<td>Universiti Putra Malaysia (UPM), Physics Department</td>
<td>Microwave Physics</td>
<td></td>
<td></td>
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<tr>
<td>Assoc. Prof. Husaini Omar</td>
<td></td>
<td></td>
<td>Soil Testing Equipment</td>
<td></td>
</tr>
<tr>
<td>Assoc. Prof. Rahmah Noordin</td>
<td>Universiti Sains Malaysia</td>
<td></td>
<td>Biotechnology, Medical Parasitology</td>
<td></td>
</tr>
<tr>
<td>Dr. Ravigadevi Sambathumurthe</td>
<td>Malaysian Palm Oil Board</td>
<td></td>
<td>Palm Oil Mill Effluent</td>
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## Philippines

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>Award</th>
<th>Research focus</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Catherine Vistro-Yu</td>
<td>Mathematics Department, Ateneo de Manila University</td>
<td>National Research Council of the Philippines (NRCP) 2008 Achievement Awards</td>
<td>Mathematics Education</td>
<td>2008</td>
</tr>
<tr>
<td>Dr. Agnes T. Parajas</td>
<td></td>
<td></td>
<td>Mathematics</td>
<td></td>
</tr>
<tr>
<td>Dr. Myrna T. Mendoza</td>
<td>College of Medicine, University of the Philippines</td>
<td></td>
<td>Medicine</td>
<td></td>
</tr>
<tr>
<td>Dr. Raquel Jadulco-Koch</td>
<td></td>
<td></td>
<td>Marine Science</td>
<td></td>
</tr>
<tr>
<td>Dr. Cleofas R. Cervancia</td>
<td>Institute of Biological Sciences, University of the Philippines at Los Baños</td>
<td></td>
<td>Bee Biology</td>
<td></td>
</tr>
<tr>
<td>Dr. Conrado A. Valdez</td>
<td>College of Veterinary Medicine, University of the Philippines at Los Baños</td>
<td></td>
<td>Theriogenology, Zootechnics</td>
<td></td>
</tr>
<tr>
<td>Dr. Epictetus E. Patalinghug</td>
<td>College of Business Administration, University of the Philippines</td>
<td></td>
<td>Economics/Finance</td>
<td></td>
</tr>
<tr>
<td>Dr. Christopher P. Monterola</td>
<td>National Institute of Physics, University of the Philippines, Diliman</td>
<td></td>
<td>Physics/Mathematics</td>
<td></td>
</tr>
<tr>
<td>Dr. Elsie C. Jimenez</td>
<td>University of the Philippines, Baguio</td>
<td></td>
<td>Biochemistry</td>
<td></td>
</tr>
<tr>
<td>Assoc. Prof. Dr. Marietta M. De Leon</td>
<td>Geology, University of the Philippines, Diliman</td>
<td>Paleontology/Stratigraphy</td>
<td></td>
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</tr>
<tr>
<td>Dr. Caesar S. Saloma</td>
<td>National Institute of Physics, University of the Philippines, Diliman</td>
<td></td>
<td>Photonics, information processing, complex adaptive systems</td>
<td>2005</td>
</tr>
<tr>
<td>Dr. Bienvenido O. Juliano</td>
<td>Philippine Rice Research Institute Los Baños</td>
<td></td>
<td>Chemistry</td>
<td>2000</td>
</tr>
</tbody>
</table>
### Annex A – Awarded by contacting

#### Singapore

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>Award</th>
<th>Research focus</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof. Mohan Balasubramanian</td>
<td>Temasek Life Sciences Laboratory &amp; Department of Biological Sciences, NUS</td>
<td>National Science Award</td>
<td>&quot;For his outstanding contributions towards unravelling mechanisms that control cell division in eukaryotic cells&quot;</td>
<td>2008</td>
</tr>
<tr>
<td>Associate Prof. Christian Kurtsiefer</td>
<td>Centre for Quantum Technologies, Department of Physics, NUS</td>
<td>National Technology Award</td>
<td>&quot;For their outstanding theoretical and experimental studies on quantum entanglement&quot;</td>
<td></td>
</tr>
<tr>
<td>Associate Prof. Valerio Scarani</td>
<td>Institute of Microelectronics</td>
<td>National Technology Award</td>
<td>&quot;For their outstanding contributions in pioneering the novel transistor architectures and a new class of electronic bio-sensors based on Silicon-nanowires&quot;</td>
<td></td>
</tr>
<tr>
<td>Dr. John Yong Ming Shyan</td>
<td>Singapore Institute of Manufacturing Technology, A*STAR</td>
<td>National Technology Award</td>
<td>&quot;For their outstanding contributions to the development of liquid forging technology for the manufacturing of high strength components&quot;</td>
<td></td>
</tr>
<tr>
<td>Dr. Chua Beng Wah</td>
<td>Genome Institute of Singapore, A*STAR</td>
<td>National Science Award</td>
<td>&quot;For his outstanding research in gene regulation in stem cell biology&quot;</td>
<td>2007</td>
</tr>
<tr>
<td>Assoc. Prof. Uttam Surana</td>
<td>Institute of Molecular and Cell Biology, A*STAR</td>
<td>National Science Award</td>
<td>&quot;For his outstanding contribution to the understanding of cellular circuits that are crucial in regulating cell division and maintaining genome stability&quot;</td>
<td></td>
</tr>
<tr>
<td>Prof. A. J. (Jon) Berrick</td>
<td>Department of Mathematics, NUS</td>
<td>National Technology Award</td>
<td>&quot;For their fundamental work on the deep connections between algebraic topology and the theory of braids&quot;</td>
<td></td>
</tr>
<tr>
<td>Dr. Susanto Rahardja</td>
<td>Institute for Infocomm Research, A*STAR</td>
<td>National Technology Award</td>
<td>&quot;For their outstanding contributions to advancement in digital audio coding technologies, adopted as an international standard for audio compression&quot;</td>
<td></td>
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</tbody>
</table>

#### Thailand

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>Award</th>
<th>Research focus</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof. Dr. Yongwimon Lenbury</td>
<td>Department of Mathematics, Faculty of Science, Mahidol University</td>
<td>Outstanding Scientist Award</td>
<td>Mathematics</td>
<td>2007</td>
</tr>
<tr>
<td>Prof. Dr. Sompong Dhompongsa</td>
<td>Department of Mathematics, Faculty of Science, Chiang Mai University</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prof. Dr. Somchai Wongwises</td>
<td>Department of Mechanical Engineering, King Mongkut’s University</td>
<td>Mechanical Engineering</td>
<td></td>
<td>2006</td>
</tr>
<tr>
<td>Dr. Piyasan Praserthdam</td>
<td>Department of Chemical Engineering, Chulalongkorn University</td>
<td></td>
<td></td>
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<tr>
<td>Prof. Dr. Rajata Rajatanavin</td>
<td>Mahidol University</td>
<td>Medical Science</td>
<td></td>
<td>2005</td>
</tr>
<tr>
<td>Prof. Dr. Boonsong Ongphiphadthanakul</td>
<td>Department of Medicine, Ramathibodi Hospital</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prof. Dr. Thiravat Hemachudha</td>
<td>Division of Research and Department of Medicine, Faculty of Medicine, Chulalongkorn University Hospital</td>
<td></td>
<td></td>
<td>2004</td>
</tr>
<tr>
<td>Name</td>
<td>Institution</td>
<td>Award</td>
<td>Research focus</td>
<td>Year</td>
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<tr>
<td>Prof. Dr. Ngo Kieu Nhi</td>
<td>Institute of Agricultural Science for Southern Vietnam</td>
<td>Dharmawansa Senadhira Award</td>
<td>Development new breed Rice</td>
<td>2009</td>
</tr>
<tr>
<td>Prof. Dr. Bui Chi Bau</td>
<td>Southern Science and Technical Institute</td>
<td></td>
<td>Development of new rice varieties</td>
<td>2008</td>
</tr>
<tr>
<td>Dr. Nguyen Huu Ninh</td>
<td>Center for Environment Research Education and Development</td>
<td>Nobel Peace Prize</td>
<td>Climate change</td>
<td>2007</td>
</tr>
<tr>
<td>Dr. Truong Hu Chi</td>
<td>Industrial Machinery and Instruments Holding (IMI Holding)</td>
<td>Ho Chi Minh Award</td>
<td>Research, Design and Manufacturing of mechatronic equipments in Industrial use</td>
<td>2005</td>
</tr>
<tr>
<td>Ass. Prof. Dr. Dinh Van Nha</td>
<td>Automatic Research Centre, Hanoi University of Technology</td>
<td></td>
<td>Automation Engineering</td>
<td></td>
</tr>
<tr>
<td>Prof. Dr. Dao The Tuan</td>
<td>Vietnam Academy of Agricultural Sciences</td>
<td></td>
<td>Scientific foundations of agricultural and rural development in the Red River Delta</td>
<td></td>
</tr>
<tr>
<td>Ass. Prof. Dr. Nguyen Thi Noi</td>
<td>National Institute of Veterinary</td>
<td></td>
<td>Research and Development of mechanism – automation technologies in food processing industry</td>
<td></td>
</tr>
<tr>
<td>Prof. Dr. Nguyen Chau</td>
<td>Hanoi University of Science, Vietnam National University</td>
<td>State Award on Science and Technology</td>
<td>Research on magnetic materials: ferit, perovskit, amphis magnetic and nanostructured materials</td>
<td></td>
</tr>
<tr>
<td>Ass. Prof. Dr. Mai Ngoc Chuc</td>
<td>Institute of Industrial Chemistry (VIIC)</td>
<td></td>
<td>Research and Application of Apatite Exploiting in Lao Cai Mine</td>
<td></td>
</tr>
<tr>
<td>Prof. Dr. Nguyen Huu Nieu</td>
<td>Research Centre for Polymer Materials, Ho Chi Minh City University of Natural Sciences</td>
<td></td>
<td>Production of composite polymer materials</td>
<td></td>
</tr>
<tr>
<td>Ass. Prof. Dr. Luu Minh Dai</td>
<td>Institute of Materials Science</td>
<td></td>
<td>Rare earth materials for application and environmental protection</td>
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<tr>
<td>Ass. Prof. Dr. Nguyen Tri Hoan</td>
<td>Food Crops Research Institute</td>
<td></td>
<td>Research and development of the new rice varieties in Vietnam</td>
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<tr>
<td>Dr. Do Khac Thinh</td>
<td>Institute of Agricultural Science for Southern Vietnam</td>
<td></td>
<td>New rice variety VND 95-20 for exportation and domestic use</td>
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<tr>
<td>Prof. Dr. Nguyen Nhi</td>
<td>Institute of Agricultural Science for Southern Vietnam</td>
<td></td>
<td>Research on feedstuff and animal nutrition at industrial scale</td>
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<tr>
<td>Prof. Dr. Nguyen Dang Vang</td>
<td>National Institute of Animal Husbandry</td>
<td>State Award on Science and Technology</td>
<td>Selection and develop a new hybrid and breed chicken for husbandry at household scale</td>
<td>2005</td>
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<tr>
<td>Prof. Trinh Van Thinh</td>
<td>Institute of Veterinary</td>
<td></td>
<td>Research on medicines against two parasitic diseases in cattle</td>
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<tr>
<td>Prof. Dr. Huynh Phuong Lien</td>
<td>National Institute of Hygiene and Epidemiology</td>
<td></td>
<td>Research on vaccine against Japanese encephalitis</td>
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<td>Prof. Dr. Ha Huy Khoi</td>
<td>National Institute of Nutrition</td>
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<td>Solution for prevention of nutritional deficiency in community</td>
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<td>Dr. Nguyen Thi Ngoc Phuong</td>
<td>Tu Du Hospital</td>
<td></td>
<td>In-Vitro Fertilizing for infertile couples</td>
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<tr>
<td>Prof. Dr. Dang Vu Minh</td>
<td>Committee on Science, Technology and Environment, National Assembly of Vietnam</td>
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<td>Geochemistry</td>
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<tr>
<td>Prof. Dr. Vo Quy</td>
<td>Centre for Natural Resources and Environmental Studies</td>
<td>Global Green Planet Prize</td>
<td>Research on the flora and fauna of Vietnam, particularly its bird life</td>
<td>2003</td>
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</table>
Background

There are many examples of fruitful scientific collaborations and linkages between researchers in Europe and Southeast Asia (SEA). Such partnerships are beneficial to all parties involved, and the resulting advancements in research delivers improved quality of living, life saving medicines and economic returns to both regions.

The “SEA-EU-NET” project has been set up to expand scientific collaboration between Europe and Southeast Asia in a more strategic and coherent manner. The project was launched in January 2008 and involves 16 key institutions from the two regions. It will adopt an evidence-based approach to increase the quality, quantity, profile and impact of Science and Technology (S & T) cooperation between the member countries of the Association of Southeast Asian Nations (ASEAN) and the Member- and Associated States of the EU Seventh Framework Programme for Research and Technological Development (FP7). This is in support of the international strategy of the EU, and in particular the specific objectives of the FP7 – the EU’s primary funding opportunity for collaborative scientific research. The SEA-EU-NET project runs through to the end of 2011 although the outcomes will be designed so they are sustained beyond this point.

Description of work

Measures include the implementation of joint fora facilitating and strengthening the bi-regional and bi-lateral dialogue, activities to provide information on the EU FP7 in SEA, analysis of S & T structures and reporting to EU-presidencies in order to incorporate recent political developments and to generally highlight EU-ASEAN initiatives within the political decision making process. The SEA-EU-NET will not only lead to enhanced S&T cooperation but will also provide the S&T base to address global challenges through joint efforts in nurturing human and scientific resources for sustainable development.
Objectives

- **Dialogue:** To strengthen bi-regional and bi-lateral dialogues in scientific cooperation and to assist the joint identification of topics for collaboration under FP7 thematic programmes.
- **Decision-Making:** To report to the European Commission and the EU-presidencies in order to incorporate recent political developments and to generally highlight EU-ASEAN initiatives within the political decision making process.
- **Networking:** To network different stakeholders (such as universities, industry, government, civil society and donors) in order to strengthen research capacity.
- **Coherence:** To facilitate the development and implementation of a coherent European level approach towards international S&T cooperation.
- **Sustainability:** All activities will be underpinned by a focus on sustainability and designed to deliver impact beyond the lifespan of the four-year project in order to develop long-lasting partnership.

To increase the efficiency, to avoid redundancies, and to ensure the sustainability of successful activities of the past and to learn lessons, the SEA-EU-NET is considering all relevant previous and ongoing bi-regional and bi-lateral activities both inside and outside the EU Framework Programme for SEA. Moreover it will also function as a hub for the integration of upcoming FP7 projects and activities related to SEA, thus helping to incorporate them into the larger framework of the bi-regional dialogue.

Coordination

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Collegium Budapest, Institute for Advanced Study (ColBud), Hungary
www.colbud.hu

The Scientific and Technological Research Council of Turkey (TÜBITAK), Turkey
www.tubitak.gov.tr

National Science and Technology Development Agency (NSTDA), Thailand
www.nstda.or.th

Centre for Social Innovation (ZSI), Austria
www.zsi.at

Ministry of State for Research and Technology (RISTEK), Indonesia
www.ristek.go.id

National Centre for Scientific and Technological Information (NACESTI), Vietnam
www.nacesti.vn

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www.cirad.fr

The Royal Society (RS), United Kingdom
www.royalsociety.org

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www.reseau-asie.com

The Scientific & Technological Research Council of Turkey – UME (TÜBITAK UME), Turkey
www.ume.tubitak.gov.tr

Polska Akademia Nauk (PAN), Poland
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National Metrology Laboratory – SIRIM Berhad (NML-SIRIM), Malaysia
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With the booklet “Spotlight on: Excellent Researchers from Southeast Asia” the SEA-EU-NET project is proud to present a number of outstanding South-east Asian scientists in a broad range of research fields. All individuals featured here are among the recent winners of the most distinguished South-east Asian research awards. They share a global perspective and their work is cutting-edge research. Though our selection is by no means meant to be comprehensive, it can give you a picture of the amount and variety of research excellence that Southeast Asia has to offer. We hope that this booklet will encourage you to consider scientists from Southeast Asia as partners for your future scientific cooperations.