

SATU Presidents' Forum

Local Chapter Workshop

16 June 2022



SATU

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Hosts:

Universitas Airlangga, Indonesia

National Cheng Kung University, Taiwan

Organizer:

Presidents' Forum of Southeast and South Asia and Taiwan Universities (SATU)

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About SATU

The ***Presidents' Forum of Southeast and South Asia and Taiwan Universities*** (abbreviated as SATU Presidents' Forum) was established in 2003. This forum provides a venue for academics to share their valuable experiences, with the goal of improving higher education and international cooperation among Southeast and South Asian and Taiwanese universities. Our number of member universities has increased from 37 in 2003 to 101 in 2022, representing nine countries including Brunei (1), India (7), Indonesia (7), Malaysia (10), the Philippines (6), Singapore (2), Taiwan (48), Thailand (11) and Vietnam (9).

More information: <https://satu.ncku.edu.tw>

Objectives

- ◆ To strengthen academic cooperation among Taiwan and Southeast and South Asian countries
- ◆ To foster internationalization through academic and cultural exchange and collaboration
- ◆ To promote the quality of education, research and community services
- ◆ To establish exchange programs for our universities' students, faculty and administrative staff
- ◆ To foster partnerships between industry and academia
- ◆ To facilitate sustainability in economics, society and the environment

SATU Activities

◆ **Joint Research Scheme (JRS)**

A matching platform that facilitates collaboration among researchers of member universities.

◆ **JRS Webinar Series**

Investigators of project teams matched by the JRS program are invited to share their research results.

◆ **Local Chapter Workshop**

A workshop to promote cross-cultural teamwork among member universities involving scholars and experts in diverse fields.

◆ **International Summer School**

A program that provides students with the opportunity to have an exciting summer experience and learn from top academics and professionals.

◆ **SATU Mobility Action for Regional Talent (SMART)**

A competition to promote “cultural competence & cross-border cooperation” among students in our member universities. It also aims to encourage students of different disciplines to develop an entrepreneurial mindset and raise their awareness towards sustainable development.

◆ **Steering Committee Meeting**

An annual meeting at which our Steering Committee, comprised of representatives of each SATU member country, gathers to provide leadership and guidance for the Forum.

◆ **General Assembly**

The biennial General Assembly allows the presidents of member universities or their delegates to exchange and share knowledge according to the Forum’s theme.

Hosts

Universitas Airlangga, Indonesia



Prof. Dr. Mohammad Nasih

Rector, Universitas Airlangga

Prof. Dr. Mohammad Nasih, has been Rector of Universitas Airlangga (UNAIR) since 2015. It is his second period of leadership. Before being trusted as Rector, from 2007 to 2010, Prof. Mohammad Nasih was mandated to be the Director of Finance, UNAIR. From 2010 to 2015, he served as the Vice-Rector of Finance of UNAIR, and at the same time, starting from 2011, he was the Head of Sharia Economic Department in Doctoral program in the Faculty of Economics and Business, UNAIR.

He graduated from his bachelor program in Accounting, UNAIR in (1991) from his master program in Technology and Industrial Management, Institut Teknologi Bandung-ITB in 1997, and from his doctoral program in Economics – Accounting, UNAIR in 2005.

Throughout his tenure as Rector, Prof. Nasih has made several distinguished achievements, including leading Universitas Airlangga to reach #465 of QS World University Ranking, #110 of QS Asia University Ranking, #401-600 of Impact Ranking by Times Higher Education, and #183 by UI Greenmetric. Bringing Universitas Airlangga to an Excellent level and getting the highest score in the integrity zone development assessment and the highest score for the public information disclosure of 2022 by the Central Information Commission of the Republic of Indonesia.

Hosts

National Cheng Kung University, Taiwan



Prof. Huey-Jen Jenny Su

*President, National Cheng Kung University
Chairperson, SATU Presidents' Forum*

Prof. Huey-Jen Jenny Su has been the President of National Cheng Kung University (NCKU) and Chairperson of the SATU Presidents' Forum since 2015. Currently, she is the Chairperson of Foundation for International Cooperation in Higher Education of Taiwan (FICHET) and the Distinguished Professor at the NCKU Department of Environmental and Occupational Health. Her research efforts have primarily focused on the topic of air pollution related health effects, with a particular emphasis on the rising global concerns with airborne microbial hazards. She was also an expert member of the committee that prepared the World Health Organization's report concerning guidelines for biological agents in the indoor environment.

Agenda

Time (UTC+8)	Time (UTC+7)	Program
09.00 – 09.30	08.00 - 08.30	Online Meeting Entry
09.30 - 09.40	08.30 - 08.40	Opening Remarks Prof. Dr. Mohammad Nasih <i>Rector of Universitas Airlangga</i> Prof. Huey-Jen Jenny Su <i>Chairperson, SATU Presidents' Forum & President, National Cheng Kung University</i>
09.40 - 09.45	08.40 - 08.45	Group Photo Session
09.45 - 10.00	08.45 - 09.00	Networking Session: Collaboration Opportunities under SATU Presidents' Forum Prof. Hsiao-Wen Wang <i>Executive Secretary, SATU Presidents' Forum</i> <i>Vice President for International Affairs, National Cheng Kung University</i>
Panel 1 University and Industry Collaboration to Support Sustainable Community in the Sector of Health		
Chair: Prof. Woei-Jer Chuang <i>Senior Vice President, Director General of Innovation Headquarters</i> <i>Chair, Department of Biochemistry and Molecular Biology, National Cheng Kung University</i>		
10.00 - 10.20	09.00 - 09.20	Benefits, Impacts, and Strategy for Academic-Industry Collaboration on NCKU Hospital Healthcare Prof. Yi-Shan Tsai <i>Director, Clinical Innovation and Research Center</i> <i>Associate Professor, Department of Medical Imaging, National Cheng Kung University</i>
10.20 - 10.40	09.20 - 09.40	UNAIR Hospital and Collaborators to Support Sustainable in the Sector of Health: Medical Device Innovation and Implementation Prof. Dr. Nasronudin, dr., Sp.PD (K-PTI), FINASIM <i>Director, Universitas Airlangga Teaching Hospital</i> <i>Professor, Faculty of Medicine, Universitas Airlangga</i>
10.40 - 11.00	09.40 - 10.00	Discussion
11.00 - 11.15	10.00 - 10.15	Break
Panel 2 University and Industry Collaboration to Support Sustainable Community in the Sector of Science & Technology		
Chair: Dr. Bayu Arie Fianto <i>Director, Sustainable Development Goals Centre</i> <i>Lecturer, Department of Shari'a Economics, Faculty of Economic and Business, Universitas Airlangga</i>		
11.15 - 11.35	10.15 - 10.35	University and Industry Collaboration in Science and Technology-Enhanced Community Preparedness: Disaster Risk Reduction Dr Muhammad Miftahussurur, dr., M.Kes., Sp.PO., Ph.D <i>Vice Rector, Internationalisation, Digitalization and Information</i> <i>Head, Helicobacter pylori and Microbiota Study Group in Institute Tropical Disease</i> <i>Universitas Airlangga</i>
11.35 - 11.55	10.35 - 10.55	Design Eco-friendly Solutions for Landslide-prone Geomaterials under the SDGs Prof. Ching Hung <i>Associate Professor, Department of Civil Engineering</i> <i>National Cheng Kung University</i>
11.55 - 12.15	10.55 - 11.15	Discussion

Moderators: Prof. Charles Lin | Associate Vice President for International Affairs, National Cheng Kung University

Topic

The Role of Higher Education Institutions in Solving Contemporary Issues Related to SDGs

The 2030 Agenda from the United Nations, which is also referred to as Sustainable Development Goals or SDGs, is universal, transformative, and aims to promote common prosperity, advance social progress, and protect the environment while leaving no one behind. We have seen many commendable initiatives being announced in support of the 2030 Agenda.

As a higher education institution, Universitas Airlangga commits to leaving no one behind, making sure the full range of knowledge, creativity and solutions that the diversity of our peoples have to offer is tapped into. Universitas Airlangga has also taken significant steps and actions within the campus' activities and values, as exhibited by its 17 SDGs-related accomplishments. By optimising and supporting the implementation of the SDGs within the campus through the establishment of UNAIR's SDGs Centre, UNAIR is also determined to share our best practices in collaborating with local industries to be able to strive for achieving the SDGs.

Sharing the same views, National Cheng Kung University also strives to accelerate sustainable development and develop future leaders that can contribute to making a sustainable world. Though implementation of different strategies e.g. the Signature Program of Sustainable Development (SPSD), NCKU continues to look for feasible solutions to global challenges and utilize resources to achieve synergy by facilitating academic-industry collaborations.

This year's SATU President Forum Local Chapter Workshop will gather experts from both universities to disseminate their research results and have deliberate exchanges of experiences in the respective fields. It is hoped that such interaction would stimulate new thoughts on ways to contributing to a more sustainability community across geographical and cultural borders.

Abstract & Bios (in the order of panels and presentations)

Panel 1

University and Industry Collaboration to Support Sustainable Community in the Sector of Health

Chair



Prof. Woei-Jer Chuang

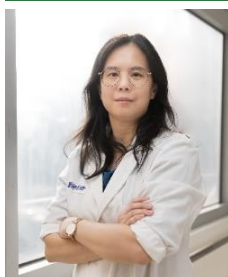
Senior Vice President, Director General of Innovation Headquarters
Chair, Department of Biochemistry and Molecular Biology
National Cheng Kung University

Biography

Prof. Woei-Jer Chuang is the Senior Vice President, Director-General of Innovation Headquarters, and the Chair of the Biochemistry and Molecular Biology Department at National Cheng Kung University. He is also an important member of many other institutions to contribute his expertise. Starting from 2020, he became the Executive Inspector Member of Academia-Industry Consortium for Southern Taiwan Science Park, Council Member of Gap of Learning and Field Consortium. He is also the Vice President of the Asian Biophysics Association, President of the Biophysics Society of ROC and Executive Inspector Member of the NMR Society of Taiwan currently.

Prof. Chuang has made remarkable achievements and has received a collection of awards, including First Price of BootCamp Workshop of Ministry of Science and Technology, ROC (2016), Outstanding Research Award of Ministry of Science and Technology, ROC (2016), Outstanding Technology Transfer Award of Ministry of Science and Technology, ROC (2016).

Prof. Chuang's laboratory interests focus on structure-based drug design using protein scaffolds, enzyme mechanisms, and protein structure-dynamics-function relationships. The long-term goals of the lab are to use protein scaffolds, including disintegrins, fibronectin type III domain, and three-fingered toxins, chlorotoxin, and α -KTx, to design protein therapeutics and study the structure-dynamics-function relationships of the protein complexes of disintegrin/integrin, chlorotoxin/chloride channel, APETx2/ASIC3, winged helix proteins/DNA, and three-fingered toxins/muscarinic receptor. The main tools are biological spectroscopy (NMR, X-ray, CryoEM, SAXS, CD, DSC, ITC, and fluorescence), protein expression, protein purification, molecular modelling, molecular biology, peptide synthesis, and protein engineering.

**Prof. Yi-Shan Tsai**

Director, Clinical Innovation and Research Center
Associate Professor, Department of Medical Imaging
National Cheng Kung University

Topic

Benefits, Impacts, and Strategy for Academic-Industry Collaboration on NCKU Hospital Healthcare

Abstract

National Cheng Kung University Hospital (NCKUH) tries to use the power of industry-academia cooperation to create a professional and comprehensive Smart Hospital without walls, which combines smart technology and medical care, complemented by an innovative health care model for sustainable medical care. In the cooperation with industry, we will gather cross-disciplinary technical talents, develop various solutions, and become a validation field to realize the application of Smart Healthcare. We will lead the digital transformation of industry and medicine and reshape the business structure model. We are maintaining competitiveness in their respective fields and industries and enhancing joint efforts to promote Precision Medicine and Smart Healthcare to maximize good health. The linkage between the NCKU and the industry extends the research capacity to the global world. By accessing and deepening the Ecosystem of industry, academia, and medicine through the cooperation of industry, academia, and research, we will use industry-driven cross-domain collaboration to build an alliance to show an innovative health care model.

Biography

Dr. Yi-Shan Tsai is an associate professor of Radiology at National Cheng Kung University and Director of the Clinical Innovation and Research Center of NCKU hospital. She is also the Division Chief of Cardiothoracic Imaging of the Department of Medical Imaging of NCKU Hospital. Dr. Tsai currently leads the development of the medical imaging AI and industry-hospital cooperation of NCKU hospital.

In recent years, Dr. Tsai has been using her cardiovascular radiology and pediatric radiology expertise to serve as one of the group reviewers for the Ministry of Science. Also, as a member of those subspecialty's committees at the Radiology Society of the Republic of China to assist in exchanging medical imaging expertise in Taiwan.

At the same time, Dr. Tsai has been leading and participating in various research projects, using artificial intelligence (AI) and information and communication technology (ICT) to conduct precision medicine, perform value-added medical data, and enhance the exchange of knowledge in the medical profession in Taiwan.

In addition, she has been actively working as the director of the Clinical Innovation and Research Center (CIC) to assist NCKU Hospital in developing smart medicine and organizing hospitals without walls. That is, paving the way for Taiwan to move towards a new digital era of Smart Medicine.

**Prof. Dr. Nasronudin, dr., Sp.PD (K-PTI), FINASIM**

Director, Universitas Airlangga Teaching Hospital
Professor, Faculty of Medicine, Universitas Airlangga

Topic

UNAIR Hospital and Collaborators to Support Sustainable in the Sector of Health:
Medical Device Innovation and Implementation

Abstract

Infectious diseases are still a global and national problem, until now. Advances in technology, transportation, communication, and relations between countries in the world are almost without limits. As a result, the occurrence of an infection can easily develop into a pandemic. Pandemic that occurs affecting a wide range of aspects of life, especially in the health sector has been arranged. On the other hand, it is also a challenge and an opportunity to make new arrangements according to the situation and conditions. The new arrangement requires creation and innovation to provide solutions to these challenges. To innovate, it is necessary to take steps that are integrated and collaborate with various competent parties, so the follow up result can be fast and can be implemented as needed. Healthcare needs to be approached and formulated through technology such as Robotics, sensor technology, imaging, stem cells, nanotechnology, artificial intelligence, digital design and template, biomedical devices, touch technology, information technology, and bioinformatics. Therefore, collaboration between universities, hospitals, business people, government and communities is needed in order to produce innovations that can be implemented.

The implementation of health technology innovation is very necessary for resource and human resource efficiency, also reducing disease transmission and the need for PPE (Personal Protective Equipment), as well as increasing safety and comfort for health workers and students, especially in State University Hospitals. In the Health sector, innovation needs to be developed in the areas of promotion, prevention, diagnostics, disease management, and rehabilitation. So it needs to be developed, communicated, and collaborated comprehensively between stakeholders, policy makers from various levels, hospitals and users including pre hospital, intra hospital, and post hospital.

Biography

Prof. Nasronudin is a professor in the Faculty of Medicine at Universitas Airlangga and the Director of Universitas Airlangga Teaching Hospital. He also leads the Faculty Advisory Board Medical Faculty. He served as the Chairman of the Tropical and Infectious Disease Association of East Java, Expert Council Accreditation Institute of Hospital Quality and Patient Safety and Member of the Honorary Council of Indonesian Hospital Ethics (PERSI East Java), contributing to the fighting against the virus.

In addition, Prof. Nasronudin has won numerous awards, namely Relawan Dokter Indonesia, Atas Partisipasinya dan Peran Aktif Dalam Tugas Penanganan Corona Virus Diseases (COVID-19)(2021), Excellence Award of Hospital Management Asia Awards 2019 in Hanoi Vietnam as Innovation in Hospital Chief Executive Officer(CEO) of the Year, Excellence Award of Hospital Management Asia Awards 2018 in Bangkok Thailand as Innovation in Hospital Management.

Prof. Nasronudin's primary research is on Tuberculosis and HIV/AIDS. He published two books to explicate Tuberculosis and HIV/AIDS management in 2019 and 2020. In recent years, his research area turned to preventing and treating the COVID-19 virus.

Panel 2

University and Industry Collaboration to Support Sustainable Community in the Sector of Science & Technology

Chair



Dr. Bayu Arie Fianto

Director, Sustainable Development Goals Center
Lecturer, Department of Shari'a Economics, Faculty of Economic and Business,
Universitas Airlangga

Biography

Bayu A. Fianto is a Lecturer at the Department of Shari'a Economics, Faculty of Economic and Business, Universitas Airlangga. He is also the head of SDGs Center Universitas Airlangga. He earned his PhD in Finance from Lincoln University, New Zealand, his MBA in Islamic Banking and Finance from International Islamic University Malaysia, and Bachelor's degree in Management from Brawijaya University, Indonesia.

He has published several articles in peer-reviewed journals including Pacific-Basin Finance Journal, Journal of Islamic Marketing, Journal of Economic Studies, and Agricultural Finance Review. He also a reviewer for several refereed journals such as Journal of Economic Analysis and Policy, International Journal of Islamic Middle Eastern Finance and Management and SAGE Open. His current research interests include microfinance, banking and finance and capital market.

**Muhammad Miftahussurur, dr., M.Kes., Sp.PD., Ph.D**

Vice Rector, Internationalization, Digitalization and Information
Head, Helicobacter pylori and Microbiota Study Group in Institute Tropical Disease
Universitas Airlangga

Topic

University and Industry Collaboration in Science and Technology-Enhanced
Community Preparedness: Disaster Risk Reduction

Abstract

The frequent natural disasters have resulted in human as well as economic loss. There has been an increase of more than eight thousand incidents, from 2,776 incidents (1950-1985) to 11,556 incidents (1985-2018). In Indonesia, the total disaster incident in 2021 is 5,042, with casualties around 728 deaths; 7,630,692 people have suffered and been evacuated; 87 lost; and 14,915 are wounded. Furthermore, disasters have also caused damage to public facilities and residences. The harms inflicted are not only in one area but also multi-areas across the country and they, in turn, affect another region. The United Nations Office for Disaster Risk Reduction (UNDRR) Global Assessment Reports documented the 2011 Bangkok floods that caused systemic impacts and blocked the supply chain. Japan was also affected by this particular disaster, since it relied on many essential goods produced in Bangkok. The outbreak of COVID-19 in the recent two years has also impacted the achievement endeavour of the 17 SDGs.

The cycle of disaster management includes disaster risk reduction management, which plays an important role in every stage of the management cycle, from during prevention, upon disaster and in managing casualties. Indonesia has implemented some strategies to manage disasters, such as enhancing community protection by raising community awareness and constructing disaster-resilient villages. Investing in disaster management can reduce casualties and this can be done through active collaborations between university, industry and the government in conducting research and innovation aimed at reducing losses due to disasters.

Biography

Muhammad Miftahussurur, MD, Ph.D is currently the Head of Helicobacter pylori and Microbiota Study Group in Institute Tropical Disease, Universitas Airlangga. Apart from being the Head of the Study Group, he is now holding the chair of Vice Rector for Internationalization, Digitalization and Information of Universitas Airlangga, after chairing the Centre for Journal Development and Scientific Publications, Universitas Airlangga for three consecutive years. He earned his specialist education in internal medicine from Universitas Airlangga back in 2011, obtained his PhD in Medical Sciences from the Oita University, Japan in 2016 and gained his Post-doctoral in Gastroenterology from Baylor College Medicine, Texas, United States, in 2017.

His most recent research publications include “Gastric microbiota and Helicobacter pylori in Indonesian population” and “The potential benefits of Vonoprazan as Helicobacter pylori infection therapy”, and he is currently chairing COVID-19-related research project “Gastric Microbiota Composition using Metagenomics Next Generation Sequencing as the Basis for Development of Supplementary Therapy for Dyspepsia and Gastroesophageal Reflux Disease in Indonesia; and also Molecular Epidemiology, Risk Factors and Potential Analysis of SOCS2, RBP4, COL3A1 as Colon Cancer Biomarkers in Indonesia.

**Prof. Ching Hung**

Associate Professor, Department of Civil Engineering
National Cheng Kung University

Topic

Design Eco-friendly Solutions for Landslide-prone Geomaterials under the SDGs

Biography

Dr. Ching Hung is currently an Associate Professor of Civil Engineering and a former Director of the Internationalization Division, Office of International Affairs, at the National Cheng Kung University (NCKU). In 2018, he was recognized for his highly promising career development and was awarded the Young Scholar Fellowship (approximately US 1.2M dollars over a 5-year period) funded by the Ministry of Science and Technology and the Ministry of Education, Taiwan. In 2019, he was granted the ISSMGE Bright Spark Lecture Award (the International Society for Soil Mechanics and Geotechnical Engineering). He has served as Lead Guest Editors and Editorial Board Members for various journals. He also launched and edited several special issues on investigating and documenting geohazards as well as large-scale landslides. He is now the editor of the Journal of GeoEngineering (Taiwan Geotechnical Society).

Dr. Hung received his PhD in Geomechanics from Columbia University in 2013. During his time at school, he received Scholarships from the Ministry of Education of Taiwan, the NASA National Space Grant Fellowship, the NSF Student Fellowship, and the ISSMGE Foundation Grant. His research focus encompasses geohazards, soil stabilization/treatment, and geosynthetic reinforced soil structures, based on the integration of field explorations, numerical simulations, laboratory tests, and geophysical surveys.



Hosted by

Universitas Airlangga (UNAIR)
National Cheng Kung University (NCKU)

Organizer

SATU Presidents' Forum International Secretariat

Contact Us

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