



Final Report

ANQ CONGRESS 2023

17th – 20th October 2023

“Quality transforms with AI booming”

Vabis International College (VABIS)

Vietnam



Congress Information

Event Name:

ANQ (Asian Network for Quality) Congress 2023

Congress Theme:

Quality transforms with Artificial Intelligence booming

Congress Dates:

17th – 20^h October 2023

Event Venue:

Vabis International College (VABIS)

Truong Chinh Street, Phu My town,
Ba Ria Vung Tau province

Vietnam

Organising Chairs:

1. Ms Nguyen Thi Hoang Lien
2. Mr Nguyen Thanh Tung

VIP Welcome Speech

MR. TRAN QUOC KHANH

Director of the Department of Labor, War Invalids and
Social Affairs of Ba Ria – Vung Tau Province, Vietnam



Congress Participation

S/N	Country	Number of Delegates
1	Bangladesh	8
2	China	15
3	Germany	1
4	Hong Kong, China	6
5	India	28
6	Japan	50
7	Korea	22
8	Nepal	3
9	New Zealand	1
10	Russia	3
11	Singapore	7
12	Sri Lanka	1
13	Taiwan	12
14	Thailand	4
15	Vietnam	27
	Total	188

Congress Statistics

Keynote Addresses	7
Parallel Sessions	4
Paper Presentations	109 presentations
• Oral Presentations	101 presentations
• Online Presentations	8 presentations
Best Paper Awards	20 awards
Ishikawa-Kano Awards	1 award
ARE-QP Awards	5 awards
Asian Service Award	1 award
Technical Visits	2 organisations
• Phu My 3 Specialized Industrial Park and Kraft of Asia (KOA)	32 delegates
• Alpha ECC - Southern Petroleum Construction Joint Stock Company	21 delegates

2023 Ishikawa-Kano Gold Medal Award

Professor, Dr Thong Ngee Goh, National University of Singapore



2023 Asian Service Award (ASA) Winner

Kenmec Mechanical Engineering Co., Ltd. (Taiwan)



ANQ Recognition for Excellence in Quality Practice (ARE-QP) Awards

- 1 Jianguo Suyan Jingshen Co., Ltd.
"TMS" marketing boosts our quality and increase efficiency"
- 2 ADVANCED SEMICONDUCTOR ENGINEERING, INC.
"Quality Challenge in the Digital Age"
- 3 FARADAY TECHNOLOGY CORPORATION
"TQM implementation for the goal of zero defect"
- 4 National Research University - Moscow Power Engineering Institute (MPEI)
"Model of innovation "lens" in MPEI as a tool for innovation management"
- 5 Phu My 3 Specialized Industrial Park (Thanh Binh Phu My Joint Stock Company)
"Phu My 3 Specialized Industrial Park - An attractive area for industrial development"



Keynote Addresses

1. Professor Dr. Shu Yamada

Keio University, Science and Technology School
Current President of Asia Network/Society for Quality (ANQ)

“ANQ Way toward Sustained Success by Quality”

2. Mr Janak Kumar Mehta (video)

Honorary Member and Past President of the International Academy for Quality (IAQ)

President & CEO of TQM International Pvt Ltd.,
Honorary Director of Asian Network for Quality
President of Indian Society for Quality

“Contribute to the Quality of Human Life’ using TQM Approaches”

3. Dr. Nguyen Thanh Tung

Rector of Vabis International College;
CEO/Co-Founder of Tuệ Đức Green School System
and CEO/Founder of Khai Minh Technology Group

“Customize AI model in business. Case study in Khai Minh Technology Group Vietnam: KMTG’s Brain”

4. Dr. Myung Soo Kang

Chairman and CEO Korean Standards Association
and

Prof. Dr. Wan Seon Shin

Sungkyunkwan University

“Digital Quality Management: A New Model and Its Assessment Results for Korean Companies”

5. Mr. Roland K. Jahnke

Academician of Academy Quality International (IAQ), USA
Master, PhD student in TQM (Total Quality Management) in UK
President of IAQ Quality in Education Think Tank (IAQ QiETT)

“A Key Role: Quality Education in the Period of AI”

6. Dr. Hoang Quoc Viet

National Numbering and Barcodes Center
Ministry of Science and Technology of Vietnam

“ Traceability - A central tool to support product quality monitoring in the era of digital transformation and towards sustainable development”.

7. Prof. Dr. Tan Cher Ming

Chang Gung University, Taiwan.

Editor of Scientific Report, Nature Publishing Group, an Editor of IEEE
Transaction on Materials and Devices Reliability

Series Editor of Springer Brief in Reliability, and Editor of many other
international Journals.

“Leveraging AI in Product Reliability Assurance”

Technical visit

- Phu My 3 Specialized Industrial Park and Kraft of Asia (KOA)



- Alpha ECC - Southern Petroleum Construction Joint Stock Company



Main Sponsors

1. Vabis International College
2. VinaCacao
3. Vinamilk
4. Petrolimex Saigon

APPENDIX 1: PARALEL SESSION

ARTIFICIAL INTELIGECE AND DIGITALIZATION

- AI issues (i/e. Machine and Deep Learning and so on)
- Robotics
- Internet of Things (IoT)
- Cyber Security
- Digitization

TESTING, CETIFICATION AND ACCREDICATION

- Uncertain and Change management
- Crisis management and Emergency Preparedness
- Testing, Certification and Accreditation

HEALTHCARE AND BIOTECHNOLOGY

- Occupation and Health Safety
- Healthcare
- Biotechnology
- Biomedical Science and Medical Devices

TRADITIONAL QUALITY MANAGEMENT AND OTHERS

- Manufacturing
- Brand management
- Supply chain management
- Governance, Risk management and Compliance
- Education – Government – Leadership

APPENDIX 2: BEST PAPER

No	Paper title	Authors	Country
1	Taguchi's RT method with sparse principal component analysis	Riku Ohta, Masato Ohkubo, Hiroki Iwamoto, Yasushi Nagata	Japan
2	Development a Method for Reducing Design Time by Reusing Empirical Knowledge: Identification of Bottleneck Processes Through Interviews with Design Engineers	Keita Kurihara, Satoru Kumagai, Kazutoyo Moriguchi, Shogo Kato	Japan
3	New Proposals of Estimation Method Based on the Empirical Moment Generating Function in the Tweedie Distribution	Kohei Fujii and Hideki Nagatsuka	Japan
4	Evaluation of Methods for Estimating Measurement Precision	Kazuma Morita, Jun-ichi Takesita, Shizu Itaka, Tomomichi Suzuki	Japan
5	Verifying the Effect of Initial Sample Size in Bayesian Optimization	Shunya Furuuchi, Shu Yamada	Japan
6	A comparison of cumulative count of conforming chart with runs rules for high-quality processes	Pei-Wen Chen, Yan-Yu Lin	Taiwan
7	Better Safe Than Sorry: Understanding Organizational Accidental Security Breaches from a Mindfulness Perspective	Sungjin, Yoo; He, Li; William. J, Kettinger	Korea
8	Implementation of State-of-the-Art Online Condition Monitoring on the LD 2 Vessel 2 Tilt Drive	Vivek Banka, Sudip Mukherjee, Prasenjit Sinha, Probal Ghosh	India
9	Digital Transformation in Electric Utility using GIS	Sonam Malik, Dhruba Banerjee	India
10	Digitization & Digitalization of Lab and Process Quality Management system for 100% Manual Tyre Plant	Sudarshan K, and Shrikant Ghadge	India
11	The Development of Electric Vehicle Smart Charging Management System based on the Driving Behaviours in Hong Kong	Ma Wai Shing, Kenny and Philip K.I. Chan	Hongkong
12	Development of Artificial Intelligence, Legal Technology and Online Dispute Resolution in Hong Kong Legal and Alternative Dispute Resolution Industries	So Man Kit, Albert and Philip K.I. Chan	Hongkong
13	Equipment Uptime Improvement in Semiconductor Industry Through Six Sigma Methodology	Too Meng Ken, Terry Beh	Singapore
14	About the new product before the launch to achieve zero defect design mode exploration	Song Yuying	China
15	Research on the Application of Data in Production and Manufacturing Site Management	ZhanQiang Wan Qiaoping Tian	China
16	Application of Artificial Intelligence in Managing Quality within the Vietnamese Food Industry: Opportunities and Challenges	Dao Ngoc Linh, Do Thi Ngoc, Tran Hai Yen	Vietnam
17	Human Resources Management Model In Digital Transformation For Small And Medium-Sized Enterprises In Ho Chi Minh City-Vietnam	Vo Phuoc Tan , Pham Xuan Thu , Hoang Van Long , Pham Minh Thanh	Vietnam
18	QVRC Model and the Titan Submersible	Nigel Grigg	NewZealand
19	Technology and AI Transforms Quality of Operations in Hospitality Industry – A Review	Shreyas Srivatsan, Anshul Kumar Garg	India
20	The Development of Quality Maturity Diagnosis Method for Small and Medium Enterprises from the Viewpoint of Quality 4.0	Dongchun Kim, Yo Han Kang, Kyung Min Kim, Hanjoo Yoo, Jeongil Choi	Korea

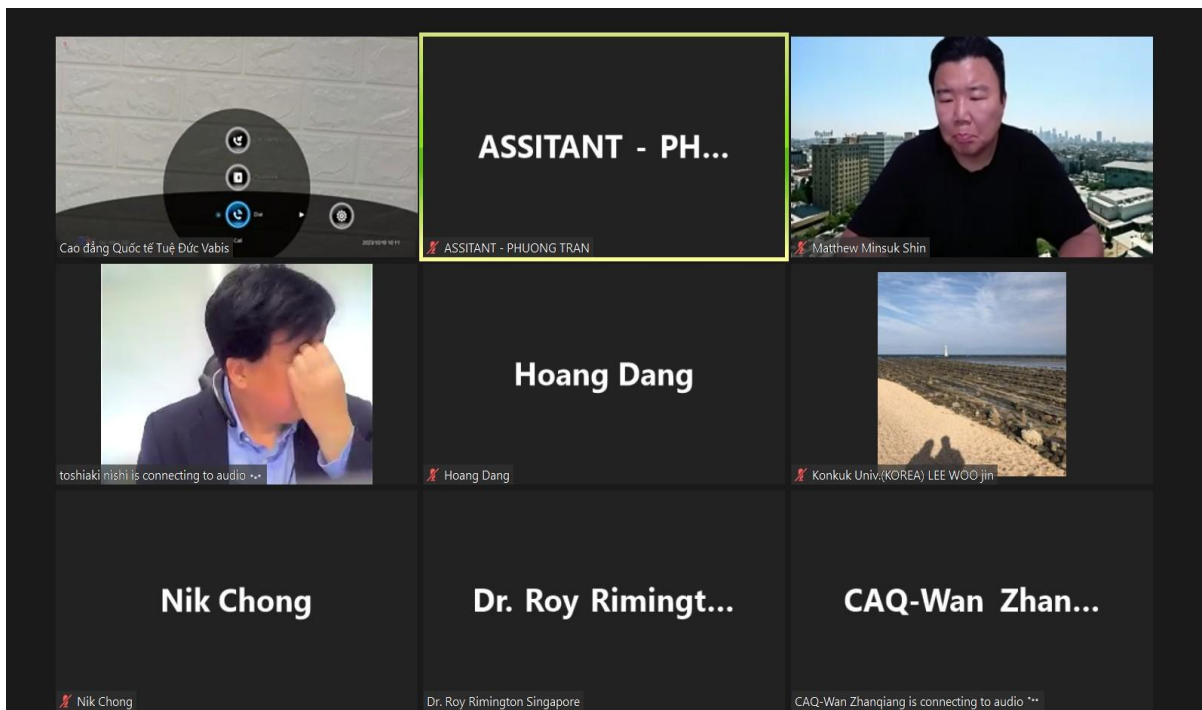


APPENDIX 3: CONGRESS MOMENTS

CHECK IN DAY



ONLINE PARALEL SESSION



PROFESSOR KANO IN THE ANQ CONGRESS VIETNAM



EXCHANGE CULTURE NIGHT - International Student



GALA DINNER

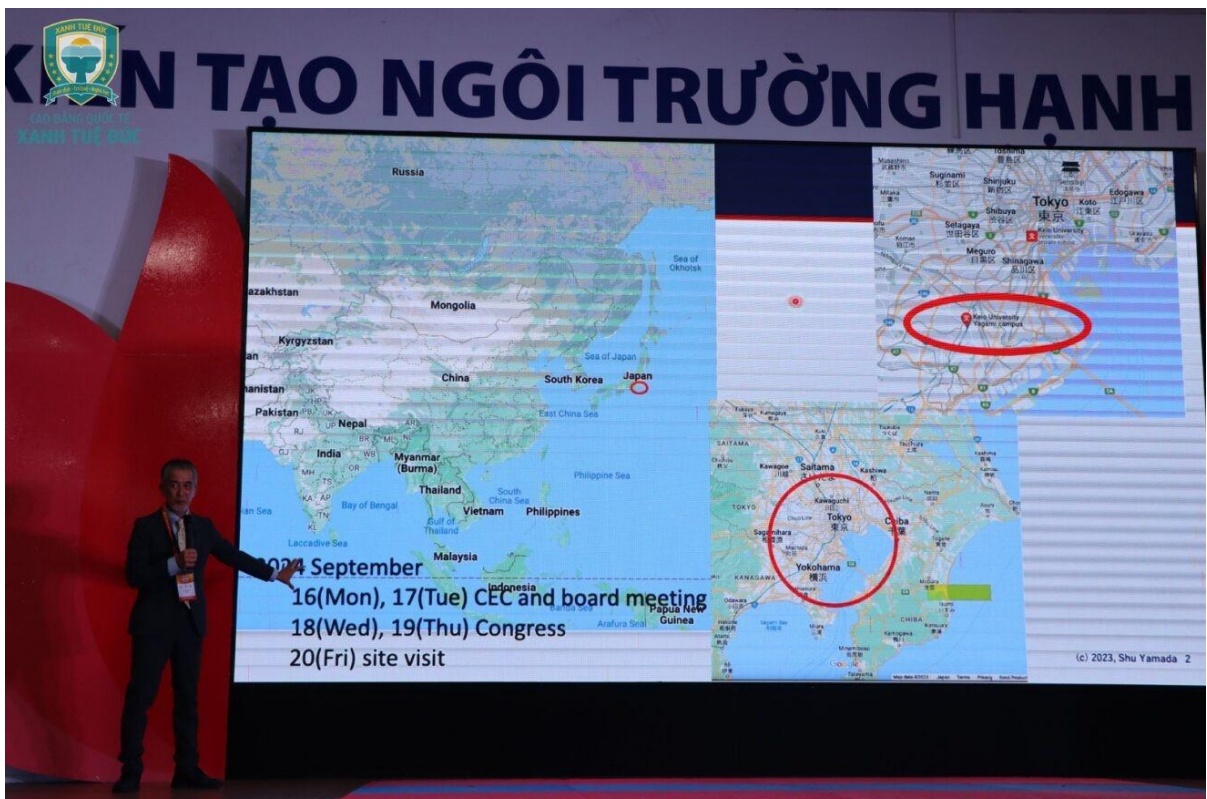




Exchange the ANQ Congress Symbolize Picture



ANQ Congress Yokohama, Japan 2024





ANQ - Hello - Xin Chào!

Composer: Dr. Nguyen Thanh Tung (VQAH - Vietnam)

Nhạc & lời: Tùng Huế Thu Nhỏ (Nguyễn Thanh Tùng)

$\text{♩} = 110$



8

6
8 A-N-Q Hello xin chào!

13
8 A - N - Q Hello xin chào! We are the world of Qua - li - ty

18
8 We praise the Hap - pi - ness of Com - pa - nies. Im - prove pro - duc - ti - vi - ty,

21
8 Pro - cesses ef - fi - cien - cy. Well be - ing for you and me. A - N - Q the world of
Peace - ful life for you and me.

25
8 har - mo - ny. Im - prove pro - duc - ti - vi - ty, Pro - cesses ef - fi - cien - cy.

29
8 Well be - ing for you and me. A - N - Q the world of har - mo - ny.

33
8 Peace - ful life for you and me. A - N - Q for you and me.