



# APEC UNIVERSITY LEADERS' FORUM

November 8, 2017 | Da Nang, Vietnam

## THE FOURTH INDUSTRIAL REVOLUTION

A futuristic white robot head is shown in profile, facing right. The head has a smooth, glossy white exterior. The face is transparent, revealing intricate internal mechanical components, including gears, pistons, and a complex network of pipes and wires. The robot's neck is also visible, showing a series of vertical ridges. The background is dark, and a large, dense cloud of small, metallic, faceted fragments is falling from the top left, creating a sense of motion and digital data. In the bottom left corner, there is a Twitter bird icon followed by the text '#AULF17', '@APRU1997', and 'APRUapecforum.com'.



# PREFACE

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The APEC University Leaders' Forum in Da Nang, Vietnam on November 8, 2017, brought together leaders from academia, business, and public policy to focus on the implications of the Fourth Industrial Revolution.

This builds on APRU's founding objective of ensuring higher education and research contribute to international public policy and the well-being of societies around the Pacific Rim.

Situated within the annual round of the APEC CEO Summit and the APEC Leaders' Meeting, university leaders were witness to the jarring and divisive currents of raw nationalism, the minimizing of international cooperation and the elevation of unilateralism in a multilateral context.

The task of APRU presidents in promoting collaboration across the region, providing evidence-based solutions to global issues and standing together in support of academic values is now even more urgent. This point was made in several ways during the University Leaders' Forum as you will read in this report. The reflections of President Tony Chan, HKUST, and an article by an experienced international journalist, Yojana Sharma, are also included in these pages.



The Forum had concrete outcomes: the announcement of the new partnership between APEC's Project DARE and APRU on data analytics education, and the launch of the APEC Education Strategy Action Plan.

We are most appreciative of H.E. Nguyen Van Phuc, Deputy Minister, Ministry of Education and Training of Viet Nam and President Nguyen Kim Son, Vietnam National University of Hanoi, our Forum partners who addressed the opening session of the meeting. I also wish to thank Ambassador Robert Holleyman, President and CEO of C&M International for his excellent moderation and extensive knowledge of the issues and region and Elsevier for their sponsorship and the participation of their Chairman, Dr. Y.S. Chi.



This is another successful step in ensuring that APRU's research universities engage across sectors and borders as the international voice of knowledge and innovation in the APEC economies.

**Christopher Tremewan**  
Secretary General  
Association of Pacific Rim Universities

# APEC IN VIETNAM 2017



Photo Courtesy of the APEC Secretariat, [www.apec.org](http://www.apec.org)

## CREATING NEW DYNAMISM, FOSTERING A SHARED FUTURE

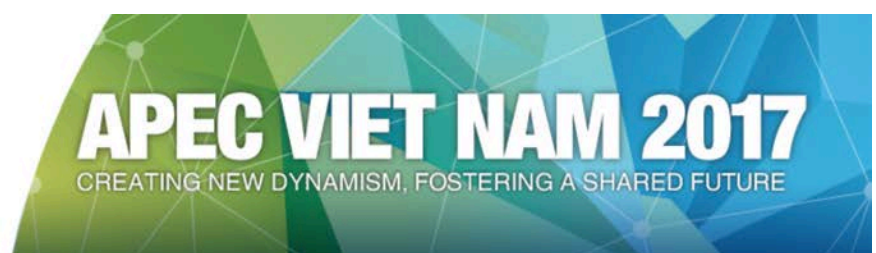
Da Nang, Vietnam

November 6–11, 2017

The APEC CEO Summit and Economic Leaders' Week is the Asia Pacific's premier business event. The by-invitation-only events provided unparalleled opportunities for global business executives to engage in dialogue with APEC leaders, high-level government officials, and influential thought leaders.

With the theme of "Creating New Dynamism, Fostering A Shared Future," this year's Summit took place in Da Nang, Vietnam, from November 6–11, 2017. It brought together APEC leaders from the world's most dynamic economies, speakers from the top global companies, international media moderators and over 1,000 CEOs from across the Asia-Pacific region. The program featured discussions, presentations, and dialogue on a wide range of issues that promoted economic dynamism and sustainable growth.

Creating "new dynamism" for economic growth and integration has become an urgent demand for the Asia Pacific amid sluggish recovery of regional and global trade and economic growth in the aftermath of the global financial crisis. Boosting trade and investment, and promoting economic integration, structural reforms and SMEs innovation are critical factors that enable APEC economies to better harness all opportunities from the Fourth Industrial Revolution and the third wave of globalization. The theme also accentuates the common and long-term goal of APEC to build a peaceful, stable, integrated and prosperous community in the Asia Pacific.



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# APEC UNIVERSITY LEADERS' FORUM 2017



## THE FOURTH INDUSTRIAL REVOLUTION

Da Nang, Vietnam

November 8, 2017

The inaugural APEC University Leaders' Forum was convened by the Association of Pacific Rim Universities (APRU), the network of leading universities of the APEC economies. This Forum brought together leaders from universities, major corporations, and governments from APEC member economies to focus on the challenges of the Fourth Industrial Revolution.

We spoke with experts about the governance structures and policy mechanisms that ensure that governments and education have the agility to keep pace with the Fourth Industrial Revolution and harness innovations that promise the greatest social and environmental returns.



The Wiley Network

# PROGRAM

Wednesday, November 8, 2017

8:30 a.m.–9:00 a.m. **REGISTRATION AND NETWORKING**

9:00 a.m.–9:30 a.m. **OPENING CEREMONY**

**Christopher TREMEWAN**, Secretary General, *APRU*

**H.E. Dr. NGUYEN Van Phuc**, Deputy Minister, *Ministry of Education and Training of Viet Nam*

**NGUYEN Kim Son**, President, *Vietnam National University, Hanoi*

9:30 a.m.–10:30 a.m. **SESSION 1: SUSTAINABILITY, BIG DATA, AND ASIA-PACIFIC CHALLENGES**

Moderated by:

**Ambassador Robert HOLLEYMAN**

Former Deputy United States Trade Representative and President and CEO of *C&M International* and Partner at *Crowell & Moring's International Trade Group*

Speakers:

**Nikita Yu. ANISIMOV**, President, *Far Eastern Federal University*

**Yong-Hak KIM**, President, *Yonsei University*

**Youngsuk 'YS' CHI**, Chairman, *Elsevier*

**David Qingzhong PAN**, Executive Dean, *Schwarzman College, Tsinghua University*

**Pat SMALLCOMBE**, President for South East Asia, *Johnson & Johnson*

**WANG Yan**, APEC Education Network Coordinator, *APEC Human Resources Development Working Group*

10:30 a.m.–10:45 a.m. **COFFEE AND TEA BREAK**

10:45 a.m.–11:45 a.m. **SESSION 2: EMPLOYMENT, DATA SCIENCE, AND ARTIFICIAL INTELLIGENCE**

Moderated by:

**Ambassador Robert HOLLEYMAN**

Former Deputy United States Trade Representative and President and CEO of *C&M International* and Partner at *Crowell & Moring's International Trade Group*

Speakers:

**Tony F. CHAN**, President, *Hong Kong University of Science and Technology*

**Jaeho YEOM**, President, *Korea University*

**HUANG Dinglong**, Founder & CEO, *Malong Technologies*

**Frank LYN**, Markets Leader, *PricewaterhouseCoopers China and Hong Kong*

**Clay STOBAUGH**, Executive Vice President, *Wiley*

11:45 a.m.–12:15 p.m. **ANNOUNCEMENT**

- APEC Project DARE and APRU 2018 Commitment
- APEC Education Strategy Action Plan

12:15 p.m.–1:30 p.m. **LUNCHEON**

Hosted by *The Ministry of Education and Training of Viet Nam*

"Winning the Innovation Race: The Surprising Future of Innovation and What's Next"

**Andrew GRANT**, Co-Author of *The Innovation Race: How to Change a Culture to Change the Game* and international bestseller *Who Killed Creativity?... And How Can We Get It Back?*

# FORUM REPORT



(L-R) **Nikita Yu. Anisimov**, President, Far Eastern Federal University; **Yong-Hak Kim**, President, Yonsei University; **Jaeho Yeom**, President, Korea University; **Nguyen Kim Son**, President, Vietnam National University, Hanoi; **H.E. Dr. Nguyen Van Phuc**, Deputy Minister, Ministry of Education and Training of Viet Nam; **Tony Chan**, President, The Hong Kong University of Science and Technology; and **Christopher Tremewan**, Secretary General, APUR

The inaugural APEC University Leaders' Forum convened in Da Nang, Vietnam, on November 8, 2017. The Forum, a new side event of the APEC CEO Summit and APEC Economic Leaders' Week, addressed a key issue for the Asia Pacific: The Fourth Industrial Revolution.

## Partnership with Vietnam

**H.E. Nguyen Van Phuc, the Deputy Minister of Education of Vietnam**, and APEC official host, welcomed 65 leaders to the Forum, highlighting the role of education and human resources in the health and wellbeing of society and economic development.

**President Nguyen Kim Son, Vietnam National University, Hanoi**, added that "higher education institutions will play a critical role in addressing the future DSA (data science and analytics) skills shortages."

## Objectives

**Dr. Christopher Tremewan, APUR Secretary General**, set out the purpose of the Forum in two objectives:

- To scope the latest thinking on the Fourth Industrial Revolution among APEC leaders in higher education, business and government.
- To build partnerships for policy development and capacity-building in the region.

## The Forum

The two panel sessions and open discussion were moderated by **Ambassador Robert Holleyman, former Deputy United States Trade Representative and currently President and CEO of C&M International, located in Washington DC.**

The task of the first panel was to discuss the ways new data analytics tools could be used by to address the



***“Collectively, APRU has the most powerful set of universities with an incredible voice to overcome this period of turning our back away from multilateralism. We want to see more collaboration because the problems are just too big. We cannot solve this alone.”***

*- Y.S. Chi, Chairman of Elsevier*



*Dr. Youngsuk 'YS' Chi, Chairman, Elsevier*

sustainability challenges of the Asia Pacific. The second panel aimed to understand how the employment challenges of the Fourth Industrial revolution could best be addressed by universities, government, and business.

## **Session 1: Sustainability, Big Data, and Asia-Pacific Challenges**

The session addressed the fundamental challenges of the Fourth Industrial Revolution in the Asia Pacific and the need for collaboration in solving them. A particular focus was the opportunities for universities to bring together partners to solve the complex issues of the Asia Pacific.

Referring to disruptive technologies, **Youngsuk 'YS' Chi, Chairman of Elsevier**, a science information and analytics company, told the Forum, “the issues that we approach today are too big for one nation to tackle, too complex to understand concretely in one discipline—it runs across all disciplines.”

Chi added that universities were the one place where economic nationalism could be resisted. “Collectively APRU has the most powerful set of universities with an incredible voice to overcome this period of turning our back away from multilateralism,” Chi said. “We want to see more collaboration because the problems are just too big. We cannot solve this alone.”

“Multilateralism is giving way to bilateral conversations which does not accomplish as much for the world as it accomplishes for individual countries,” said Chi.

“While major companies cannot resist the trend for many governments to move towards more inward looking economic and trade policies, universities can try to promote multilateral discussion, as well as understand the pace of change and challenges at a time when governments are focused on short-term initiatives,” he said.

He called on universities “to stick your neck out and resist this trend—which is dangerous for all of us.”

Though there is much talk about cross-sector innovation, “there are still a lot of barriers against innovation, especially in relation to partnerships between governments and universities,” said **Wang Yan, Coordinator of the Education Network (EDNET) of the APEC Human Resource Development Working Group**.

She referred to the APEC Education Strategy Action Plan, the first educational blueprint up to 2030 since the APEC’s inception in 1989, as a new example for multilateral



*Dr. Wang Yan, Coordinator, Education Network (EDNET) of the APEC Human Resource Development Working Group*

collaboration in education, and a public policy strategy for delivering the skills required for the Fourth Industrial Revolution.

"It is increasingly important that education and training deliver competencies that reflect the current and future needs of the regional labour market and that these competencies be commonly understood and recognised across borders and systems."

**Young Hak Kim, President of Yonsei University**, underscored universities' role to serve as a platform for developing solutions for the UN Sustainability Development Goals.

President Kim expressed his enthusiasm for a student-centered approach which provides them the leadership opportunities to solve community problems. Referring to Yonsei University's Ban Ki-Moon Center for Sustainable Development, which specializes in climate change and global warming, he announced that Yonsei University will host a major climate change forum in February, which invites scholars and students to actively participate in developing climate change solutions.

**Nikita Anisimov, President of Far East Federal University**, emphasized universities' global leadership. "As all global challenges are connected to the Sustainability Development Goals, the Technopark serves as a place where students and researchers develop specific goals and solutions for the difficulties that we find in our region. We must have global economies in the region connected around the SDGs—we are responsible for everything in the future."

The new Technopark on the campus of the Far East Federal University in Vladivostok, Russia just opened in September 2017 and is becoming a center for innovation and technology entrepreneurship.

### Session Discussion

**John Kao, Vice-President (Global) of the University of Hong Kong**, asked panelists to consider the specific challenges unique to the Asia Pacific in order to understand how to address the differing values, economic development, cross-border transactions, regulations, legal structures, economics and sustainability requirements.

Responses focused on the fundamental challenge of the Asia Pacific—understanding how to effectively address the diverse needs of the region.



*Mr. Pat Smallcombe, President, South East Asia of Johnson & Johnson*



*Prof. John Kao, Vice-President and Pro-Vice-Chancellor (Global) of The University of Hong Kong*



*Prof. Young Hak Kim, President, Yonsei University*



*Dr. Nikita Anisimov, President, Far East Federal University*

The region is diverse ethnically, linguistically, and culturally, resulting in differing needs across the region. Regional actors struggle to overcome such challenges as climate change, aging populations, and disaster risk. Therefore, it is necessary to understand the distinct contexts in which people live.

Similarly, **Pat Smallcombe, President for South East Asia of Johnson & Johnson**, also emphasized how J&J must address the diverse health needs of the APEC economies, with no one good answer. "We have a passion for innovation around therapy and patient care," he said. "The company collaborates with universities and entrepreneurs on developing health-care solutions using big data, entrepreneurship development, and innovation labs. We find that collaboration is one way that we can speak across that diversity to address the needs of patients using the latest tools."

Christopher Tremewan, APRU Secretary General, referring to Dr. Y.S. Chi's challenge to APRU to speak out on issues of urgent public importance, stated that this is APRU's priority. He also said that the coming period will bring both the promise of technological innovation, beyond anything we have seen to date from universities and industry and, at the same time, we will be facing social chaos owing to inequality. "When we think about innovation, universities

need to face the fact that they will increasingly face the ethical challenge of ensuring that the benefits of innovation are shared with those that need them most, not only those that can pay for them. We can look forward with some confidence that universities are already collaborating on solutions to the challenges to social well-being. But there are structural issues we have yet to address sufficiently."

To conclude, Ambassador Holleyman holds universities up as important conveners of business leaders and policymakers. Ambassador Holleyman further described the challenges in policymaking, "government officials are focused on short term initiatives, and this can be as short as their own term in office" Holleyman said. "Yet the disruptive changes of the Fourth Industrial Revolution can seem threatening because of the pace of change and extensive global competition."

Universities bring to the table, especially in the APEC region, knowledge that policy makers are looking for "in some cases before the policy makers know what the questions are," including understanding what is happening in a fast-changing technological and research environment," Holleyman said.

***"Universities bring to the table, especially in APEC, knowledge that policy makers are looking for, in some cases before the policy makers know what the questions are, including understanding what is happening in a fast-changing technological and research environment."***

***-Ambassador Robert Holleyman, former Deputy United States Trade Representative and current President and CEO of C&M International***



*Ambassador Robert Holleyman, former Deputy United States Trade Representative who is now President and CEO of C&M International, located in Washington DC.*



*Dr. Christopher Tremewan, Secretary General, APRU*



## Digital workforce strategies for CEOs in the APEC region



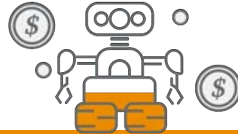
**58%**

Automating certain functions



**41%**

Identifying workers who are skilled at using new automation tools



**40%**

Investing in machine learning and emerging technologies

Q: Which of the following workforce strategies are you currently using to adapt to and profit in an increasing digital age?

Base: APEC CEOs 1314 Don't know 2%, None of the above 4%, Other 1%.  
Source: PwC's APEC CEO Survey, 2017

Insights from PwC research: Making of the workforce of the future | November 2017

### Session 2: Employment, Data Science, and Artificial Intelligence

Session two explored opportunities for universities, government, and industry to prepare the workforce with the skills necessary for the Fourth Industrial Revolution.

**Frank Lyn, Markets Leader at PriceWaterhouseCoopers China and Hong Kong**, set the scene with a preview of PwC's annual CEO Survey.<sup>1</sup>

The survey finds that APEC businesses are laying the groundwork for a future workforce that is analytics-competent, more intelligence-consuming, and less focused on commodified tasks. Adoption rates for automation technologies are high. Over half of business leaders (58%) say they are automating certain functions in their workforces.

"The lack of Data Science Analytics skills currently sits on top of the skills shortage in the APEC region, not just in terms of the size of the gap but also its essential role in driving artificial intelligence, the Internet of Things, cyber-physical systems that are at the centre of the Fourth Industrial Revolution, the future of work, and the future

of global prosperity," said Clay Stobaugh, Project DARE Co-Chair and Executive Vice-President of Wiley, a global publishing and research company.

"One million jobs will go unfilled in the APEC region because the skills sets won't be able to provide for data analytics that are required by employers," Stobaugh told the University Leaders' Forum.

**Tony Chan, President of The Hong Kong University of Science and Technology**, discussed universities as the vehicles of change for industry and for society. Hong Kong is a "perfect storm of big data, a highly adaptable work environment, and dense population. And universities can provide a flexible way for the workforce to update and adapt their skills through continuing education."



Mr. Frank Lyn, Markets Leaders for PriceWaterhouseCoopers in China and Hong Kong

<sup>1</sup> PriceWaterhouseCoopers 20th CEO Survey <https://www.pwc.com/gx/en/ceo-agenda/ceosurvey/2017/gx.html>

Although technical skills in robotics, automation, data science, and big data are in high demand, there remains a place for a workforce that is critical, can define and identify problems, and effectively solve them. "Artificial intelligence poses opportunities for more quality jobs in the future," said **Huang Dinglong, founder and CEO of China's Malong Technologies**, which focuses on artificial intelligence. Companies will need more people to do interesting work in these areas. "The best job has not been created yet, it is still coming," he told the Forum.

**Jaeho Yeom, President of Korea University**, discussed the importance of working with industry partners and adjusting the learning environment for changing workforce demands. He said, "I want to make the university a knowledge amusement park. It is not a labor of work but can be enjoyed as a pioneer village to joyfully create new ideas and innovation."

## Session Discussion

**Fanny Cheung, Pro-Vice-Chancellor and Vice-President at The Chinese University of Hong Kong**, noted the importance of equitable university-industry partnerships to address the needs of the future workforce and the challenges of the Asia Pacific.

In discussion, panellists stressed the need for universities to create policies effective for innovation and research. An example, on-campus laboratories could be part of the solution, allowing students and academics to engage.

Discussants reported how universities are now adapting traditional educational models to the future needs, but added how metrics for success must also change.

**Nguyen Duy Luan, Vice-President of External Affairs at The American University of Vietnam (AUV)** stressed the relevance of strong liberal arts education in an age of rapid technological advances.



*Prof. Jaeho Yeom, President, Korea University*



*Prof. Tony Chan, President, The Hong Kong University of Science and Technology*



*Mr. Clay Stobaugh, Executive Vice-President, Wiley*



*Prof. Fanny Cheung, Pro-Vice-Chancellor / Vice-President, The Chinese University of Hong Kong*



## APRU and APEC Project DARE Announce New Partnership for Data Analytics

Dr. Christopher Tremewan, APRU Secretary General, and Mr. Clay Stobaugh, Vice President of The Wiley Network and Co-Chair of APEC Project DARE (Data Analytics Raising Employment), announced a new partnership committed to bridge the projected skills-gap in the Asia Pacific.

## APEC Education Strategy Action Plan Launched

Dr. Wang Yan, Coordinator of APEC Project DARE, launched the APEC Education Strategy Action Plan, which was approved the previous day by the 21 APEC economies.

The Action Plan's goals include:

- Education indicators to demonstrate the evidence base for collaboration.
- A new collaborative approach toward instruments under nine priorities that serve as guidelines for APEC projects and economy initiatives.
- A new APEC model for multilateral education development.



(L-R) **Dr. Wang Yan**, Coordinator, Education Network (EDNET) of the APEC Human Resource Development Working Group; **Mr. Clay Stobaugh**, Executive Vice-President, Wiley; **Dr. Youngsuk 'YS' Chi**, Chairman, Elsevier; and **Dr. Christopher Tremewan**, Secretary General, APRU.

Additionally, Dr. Y. S. Chi, Chairman of Elsevier, announced his company's commitment to APRU activities and the APEC Education Action Plan by providing data analytics support.



**Prof. Nguyen Duy Luan**, Vice-President of External Affairs at The American University in Vietnam (AUV)



**Mr. Huang Dinglong**, Founder and CEO of China's Malong Technologies

# THE TABLES HAVE TURNED

**By Tony Chan, President, The Hong Kong University of Science and Technology**  
***The Standard (Hong Kong)***  
**Education | 28 Nov 2017**

Two weeks ago, I attended the Association of Pacific Rim Universities APEC (Asia-Pacific Economic Cooperation) University Leaders' Forum in Da Nang, Vietnam.

The Hong Kong University of Science and Technology is a member of the association (whose headquarters recently moved from Singapore to the HKUST campus) and I am on its steering committee.

The theme was sustainability and employability challenges posed by the Fourth Industrial Revolution.

About 60 university presidents and vice presidents and corporate leaders from around the globe attended the forum - including Tsinghua University, CUHK, Vietnam National University at Hanoi and Ho Chi Minh, KAIST, Seoul National University, the Far Eastern Federal University (in Russia), Elsevier, Wiley, Johnson & Johnson, and Malong Technologies.

Vietnam is a young and developing country with a median age of around 30, and I have a feeling that it will become a prime student recruitment target for Hong Kong universities soon.



Photo Courtesy of the APEC Secretariat, [www.apec.org](http://www.apec.org)

Chan, T. (2017, November 28). "The tables have turned." *The Standard*. Retrieved from [http://www.thestandard.com.hk/section-news.php?id=190080&story\\_id=50001132&d\\_str=20171128&fc=4&sid=16](http://www.thestandard.com.hk/section-news.php?id=190080&story_id=50001132&d_str=20171128&fc=4&sid=16)

After the forum, I attended the APEC CEO Summit, which was well covered by the media.

Here I just want to give my own impressions. First, I noticed that even though many heads of states were listed in the program, not all actually showed up to speak - for example, Shinzo Abe (Japan), Vladimir Putin (Russia) and Enrique Pena Nieto (Mexico).

But many did, including Xi Jinping (China), Carrie Lam Cheng Yuet-ngor (Hong Kong), Donald Trump (USA), Malcolm Turnbull (Australia), Jacinda Ardern (New Zealand) and Rodrigo Duterte (Philippines).

Many CEOs and COOs were also there: WalMart, FedEx, UPS, Airbnb, WTO, World Bank, PwC, JPMorgan, and AIIB.

Our C.E. represented Hong Kong well; she was talking at ease and her stance on free trade won her much applause.

But the most anticipated speeches were by Trump and Xi. This was the first time I got to listen live to Trump speaking, and, content aside, I think he is a very effective speaker and communicates well.

I was impressed by his speech writer, who had the difficult task of crafting his tough messages in diplomatic terms. The following quotes are typical: "I have to take care of America first, just as you have to take care of your countries first too" and "America has been taken advantage of in the past, but I don't blame you, I blame my predecessor."

Whether such rhetoric was received as Trump intended is anybody's guess.

The biggest rounds of applause went to Xi; some of them were probably due to the fact that the Chinese presence at the summit was big (simultaneous translation was provided in three languages only: Chinese, Vietnamese and English).

While I felt that the energy level of Xi's speech was not quite at the same level as his speech at Davos earlier this year, there is no denying that his message struck a chord with those present. Maybe his speech had some repetition from that, as well as the one at the 19th national congress

of the Communist Party of China.

I could tell that the audience genuinely agreed with his message that free trade and openness are keys to global development.

Leaders in the APEC region were all looking to build better economic and political relationships with China.

The venue in Da Nang was newly built and it could barely host enough seats for the participants. A number of Hong Kong reporters told me that they were allowed in only when Lam got to speak.

I had never visited Da Nang before and my only memory of the city was that it was where the Vietnam War began, almost exactly 50 years ago.

When the United States pulled out in the 1970s, few thought that the United States and Vietnam would be on talking terms again.

China was Vietnam's ally during that war. America, back then, was the champion of a free world, while China was seen as a backward, closed country.

How things have changed today!

The irony was not lost on many participants, with Vietnam being a closer ally with the United States than China, and Trump talking about "fairness" and "being taken advantage of," while Xi preached collaboration and openness on the same stage. What will happen in another 50 year time? That's anybody's guess.



# UNIVERSITIES CAN HELP OVERCOME ECONOMIC NATIONALISM

**Yojana Sharma**  
**23 November 2017**

In an era when economic and trade nationalism is disrupting the multilateral world order, universities have a role to play in driving multinational cross-border collaborations, and preparing for a future thrown into uncertainty by the so-called fourth industrial revolution.

University presidents, policymakers and business leaders in the Asia-Pacific region came together in a University Leaders Forum just before the Asia Pacific Economic Cooperation or APEC summit in Vietnam earlier this month to talk about joint strategies and policies to keep pace with disruptive technologies – digitisation, robotics and artificial intelligence.

The rise of economic nationalism and decline of the multilateral trade system, particularly since US president Donald Trump entered office this year, was a major focus of the main Summit of APEC heads of state from the 21 member countries in Da Nang, Vietnam. Early in his presidency Trump announced his country's withdrawal from the Trans-Pacific Partnership or TPP, a multilateral trade pact with 11 other Asian and Pacific Rim countries in Australasia, North America and Latin America, sparking consternation in the region.

Many governments are fearful of the Fourth Industrial Revolution, which "has created hopes for higher productivity but also anxiety about its transformative implications", said Vietnam Deputy Prime Minister and Foreign Minister Pham Binh Minh, Co-Chair of the APEC ministerial meeting on 9 November, which preceded the leaders' summit on 10-11 November.



Photo Courtesy of the APEC Secretariat, [www.apec.org](http://www.apec.org)

Sharma, Y. (2017, November 23). Universities can help overcome economic nationalism. *University World News*, Issue No: 484. Retrieved December 03, 2017, from <http://www.universityworldnews.com/article.php?story=20171123200015564>

Universities can inform policy makers on how to prepare for disruption, particularly understanding what is happening with students, who are in the cutting edge of innovation, delegates from business, government and universities heard at the University Leaders Forum in Da Nang on November 8th, organised by the Association of Pacific Rim Universities or APRU.

With many universities already collaborating in cross-border and multidisciplinary research, “we can see many opportunities and an emancipation from the national context,” said APRU secretary general Christopher Tremewan.

Referring to disruptive technologies, Chi Youngsuk chairman of Elsevier, a science information and analytics company, told the forum, “the issues that we approach today are too big for one nation to tackle, too complex to understand concretely in one discipline, it runs across all disciplines.”

### Resisting economic nationalism

Chi added universities were the one place where economic nationalism could be resisted.

“Collectively APRU has the most powerful set of universities with [an] incredible voice to overcome this period of turning our back [away] from multilateralism,” Chi said. “We want to see more collaboration because the problems are just too damn big. We cannot solve this alone.”

“Multilateralism is giving way to bilateral conversations which does not accomplish as much for the world as it accomplishes for individual countries,” said Chi.

While major companies cannot resist the trend for many governments to move towards more inward looking economic and trade policies, universities can try to promote multilateral discussion, as well as understand the pace of change and challenges at a time when governments are focused on short-term initiatives, he said.

He called on universities “to stick your neck out and resist this [nationalism] trend, which is dangerous for all of us”.

Though there is much talk about cross-sector innovation, “there are still a lot of barriers against innovation, especially in relation to partnerships between governments and universities”, said Wang Yan, coordinator of the Education Network of the APEC Human Resources Development Working Group.

She pointed to the APEC Education Strategy Action Plan endorsed at the APEC summit – the first educational blueprint up to 2030 since the inception of APEC in 1989 – as a new example for multilateral education collaboration, including in delivering the skills required for the Fourth Industrial Revolution. International trade lawyer and digital trade expert, Robert Holleyman, previously deputy US trade representative during the administration of former US president Barack Obama and now CEO of C&M International, a trade and public affairs consultancy, told the forum that university collaboration with the private





sector and policy-makers in APEC can produce the next generation of leaders who will understand how better to collaborate.

"Government officials are focused on short-term initiatives," Holleyman said, and this can be as short as their own term in office. Yet the disruptive changes of the Fourth Industrial Revolution can seem threatening because of the pace of change and extensive global competition.

Universities bring to the table, especially in APEC, things that policy-makers are looking for, "in some cases before the policy-makers know what the questions are", including understanding what is happening in a fast-changing technological and research environment, Holleyman said.

"Artificial intelligence poses opportunities for more quality jobs in the future," said Huang Dinglong, founder and CEO of China's Malong Technologies, which focuses on artificial intelligence.

Companies will need more people to do interesting work in these areas. "The best job has not been created yet, it is still coming," he told the forum.

## Skills mismatch

APEC economies have identified structural unemployment and a skills mismatch as major concerns for the region. There is a gap between the skills of workers looking for work and the skills required for emerging job opportunities according to the 2017 APEC Economic Policy Report on structural reform and human capital development.

In Da Nang, the Association of Pacific Rim Universities announced a partnership with APEC's Project DARE on data science, analytics and raising employment to bridge the skills gap in the region. "Higher education institutions

will play a critical role in addressing the future DSA [data science and analytics] skills shortages," said Nguyen Kim Son, president of Vietnam National University, Hanoi.

"The lack of DSA skills currently sits on top of the skills shortage in the APEC region, not just in terms of the size of the gap, but also its essential role in driving artificial intelligence, Internet of Things, cyber-physical systems that are at the centre of the Fourth Industrial Revolution, the future of work and the future of global prosperity," said Project DARE Co-chair Clay Stobaugh, executive vice-president of Wiley, a global publishing and research company.

"One million jobs will go unfilled in APEC because the skills sets won't be able to provide for data analytics as required by employers," Stobaugh told the University Leaders' Forum.

Project DARE was launched by APEC earlier this year to develop the competencies required for future DSA workers.

"DSA-enabled knowledge workers will have skills not easily replaced by automation; instead they will be better prepared to unlock the promise and potential of data and the technologies that depend on it," according to the APEC Human Resources Development Working Group in a June communication in preparation for the November summit.

The competencies were developed by a 50-person advisory group from 14 APEC member economies, co-chaired by Wiley and the Business-Higher Education Forum. Advisors included business leaders who oversee data science and analytics within their companies, academics involved with inter-disciplinary data science initiatives and curricula, and government officials involved in human resources development.

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*Additional APEC University Leaders' Forum coverage: Universities of the Asia Pacific Prepare to Lead in Fourth Industrial Revolution (2017, November 8). Association of Pacific Rim Universities. Retrieved from <https://apru.org/press/news/item/1014-universities-of-the-asia-pacific-prepare-to-lead-in-fourth-industrial-revolution>*

# DELEGATES

No.	Name	Organization	Title
1	Wang Yan	APEC Human Resource Development Working Group	Education Network Coordinator
2	Jeffrey S. Goss	Arizona State University	Associate Vice Provost, SE Asia and Director, Vietnam HEEAP Project
3	Robert Holleyman	C&M International	President and CEO of C&M International and Partner, Crowell & Moring's International Trade Group and Former Deputy United States Trade Representative
4	Tracy Huang	C&M International	Associate Director
5	Grant McPherson	Education New Zealand	Chief Executive
6	John Laxon	Education New Zealand	Regional Director – South and South East Asia, Middle East Education Attaché
7	Dang Ngoc Thanh	Education New Zealand	Account Executive
8	Youngsuk 'YS' Chi	Elsevier	Chairman, Elsevier and Director of Corporate Affairs, RELX Group
9	Nikita Yu. Anisimov	Far Eastern Federal University	Interim President
10	Sokolovskii Ya. Aleksandr	Far Eastern Federal University	Professor and Director of the Vietnamese Cultural and Educational Center
11	Nguyen Thanh Nam	FPT University	Vice Chairman of the Board of Directors, Former FPT CEO
12	Andrew Ure	Google	Head of Trade and Economic Affairs, APAC
13	Hoang Minh Son	Hanoi University of Science and Technology	President
14	Tran Duc Huy	Hanoi University of Science and Technology	Assistant to President
15	Tony F. Chan	Hong Kong University of Science and Technology	President
16	John Behzad	Indiana University Bloomington	Professor of Corporate Finance
17	Pat Smallcombe	Johnson & Johnson	President for South East Asia
18	Jaeho Yeom	Korea University	President
19	Sunhyuk Kim	Korea University	Vice President, International Affairs
20	Huang Dinglong	Malong Technologies	Founder & CEO
21	Kevin Kutz	Malong Technologies	Consultant
22	Javed Alam	Merck	Managing Director (Vietnam)
23	Lynn Taylor	Merck	Senior Vice President, Head of Global Government Affairs and Policy
24	Yasmine Rouai	Merck	Associate Director, Global Health Policy
25	H.E Nguyen Van Phuc	Ministry of Education and Training of Viet Nam	Deputy Minister
26	Cuong Pham	Ministry of Education and Training of Viet Nam	Deputy Director General, International Cooperation Department
27	Chi Dang	Ministry of Education and Training of Viet Nam	Officer, International Cooperation Department
28	Hang Vu	Ministry of Education and Training of Viet Nam	Officer, International Cooperation Department
29	Nga Dao	Ministry of Education and Training of Viet Nam	Officer, International Cooperation Department
30	Khin Yong Lam	Nanyang Technological University Singapore	Acting Provost, Chief of Staff and Vice President (Research)
31	Vu N. Duong	Nanyang Technological University Singapore	Director, Air Traffic Management Research Institute
32	Pham Hong Chuong	National Economics University	Vice President
33	Frank Lyn	PricewaterhouseCoopers China and Hong Kong	Markets Leader

No.	Name	Organization	Title
34	Alexandra Ho	PricewaterhouseCoopers China and Hong Kong	Senior Marketing Consultant, Marketing & Communications
35	Faye Ji	PricewaterhouseCoopers China and Hong Kong	Senior Manager
36	Terrance Lui	PricewaterhouseCoopers China and Hong Kong	Senior Marketing Consultant
37	Alan Song	Softbank China Venture Capital	Managing Partner
38	Shu-Ching Chang	Taipei Economic and Cultural Office in Vietnam	Third Secretary
39	Luan D Nguyen	The American University in Vietnam	Vice President of External Affairs
40	Fanny Mui Ching Cheung	The Chinese University of Hong Kong	Pro-Vice-Chancellor / Vice-President
41	Amy Chan Tsz Ling	The Chinese University of Hong Kong	Senior Programme Manager, Office of Academic Links
42	Doan Quang Vinh	The University of Danang	Vice President
43	Junichi Mori	The University of Danang - Danang University of Economics	Visiting Professor
44	John Kao	The University of Hong Kong	Vice-President and Pro-Vice-Chancellor (Global)
45	Andrew Grant	Tirian International Consultancy	CEO
46	David Qingzhong Pan	Tsinghua University	Executive Dean of Schwarzman College
47	Maria Cynthia Rose Banzon Bautista	University of the Philippines	Vice-President for Academic Affairs
48	Nguyen Kim Son	Vietnam National University Hanoi	President
49	Nguyen Quy Thanh	Vietnam National University Hanoi	Rector
50	Nguyen Hong Son	Vietnam National University, Hanoi	Vice President
51	Nguyen Thi Anh Thu	Vietnam National University, Hanoi	Professor and Director, Cooperation and Development Department
52	Truong Ngoc Kiem	Vietnam National University, Hanoi	Vice Director of Cooperation and Development Department
53	Vu Thi Hong Viet	Vietnam National University, Hanoi	Official Staff of Cooperation and Development Department
54	Le Minh Tuan	Vietnam National University, Hanoi	Official Staff of Cooperation and Development Department
55	Vu Ngoc Tung	Vietnam National University, Hanoi	Staff of Media Office
56	Nguyen Cao Khuong	Vietnam National University, Hanoi	Staff of The Office
57	Huynh Thanh Dat	Vietnam National University, Ho Chi Minh City	President
58	Trieu Le Thi Thuy	Vietnam National University, Ho Chi Minh City	Deputy Director of Department of External Relations
59	Clay Stobaugh	Wiley	Executive Vice President and Chief Marketing Officer
60	Yong-Hak Kim	Yonsei University	President
61	John Frankl	Yonsei University	Associate Dean for International Affairs
62	Christopher Tremewan	Association of Pacific Rim Universities	Secretary General
63	Christina Schönleber	Association of Pacific Rim Universities	Director of Policy & Programs
64	Jackie Agnello Wong	Association of Pacific Rim Universities	Marketing and Business Development Manager
65	Cherry Wong	Association of Pacific Rim Universities	Administrative and Program Officer

# SPEAKERS

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Dr. Nikita Yu. Anisimov was appointed President of Far Eastern Federal University in August 2016. Prior to joining Far Eastern Federal University, Dr. Anisimov worked in Lomonosov Moscow State University in position of Chief Specialist, Head of Department, Deputy Vice-Rector, Vice Chairman of the Central Admissions Committee, Director of the Institute for Retraining and Professional Development, and Vice-Rector from 2002 to 2013. Dr. Anisimov also held the position of Vice President for Academic Affairs, First Vice President, Interim President of Moscow Polytechnic University from 2013 to 2016.

He served as Executive Secretary of the Russian Council of School Olympiads from 2007 to 2009. He graduated with honors in mathematics & applied mathematics from Lomonosov Moscow State University in 1998 and awarded a Ph. D. degree in Physics and Mathematics in 2001.



**Nikita Yu. Anisimov**  
President  
Far Eastern Federal  
University



**Tony F. Chan**  
President  
The Hong Kong  
University of Science  
and Technology

President Chan's scientific background is in mathematics, computer science and engineering. He received his Ph. D. in computer science from Stanford University. President Chan taught at Yale University before joining UCLA as Professor of Mathematics in 1986. He was appointed Chair of the Department of Mathematics in 1997 and served as Dean of Physical Sciences from 2001 to 2006. From 2006 to 2009, President Chan was Assistant Director of the Mathematical and Physical Sciences Directorate at the US National Science Foundation (NSF).

President Chan is an elected member of the US National Academy of Engineering (NAE), an elected Fellow of the Institute of Electrical and Electronic Engineers (IEEE) and an elected fellow of both the Society for Industrial and Applied Mathematics (SIAM) and the American Association for the Advancement of Science. He has been one of the world's most cited mathematicians.

Dr. Youngsuk 'YS' Chi is an international businessman and a leader in the media and technology industry, and currently serves Elsevier and RELX Group in several different capacities. In his primary role as Director of Corporate Affairs and Asia Strategy for RELX Group, he is responsible for government affairs, corporate communications, and corporate responsibility for RELX. As non-executive Chairman of Elsevier, he works directly with governments, Elsevier customers, and in industry associations worldwide.

Dr. Chi recently served as Chairman of the Association of American Publishers and has also concluded 4 years of service as the President of the International Publishers Association. He has also served on dozens of charitable, educational and industry boards, including Princeton University, South Federal State University, the Korean American Community Foundation and McCarter Theatre.



**Youngsuk 'YS' Chi**  
Chairman  
Elsevier

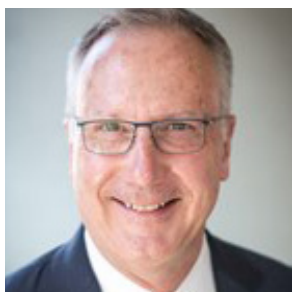
Mr. Andrew Grant is the CEO of Tirian International Consultancy and co-author of the new book *The Innovation Race: How to Change a Culture to Change the Game* and *Who Killed Creativity?... And How Can We Get It Back?*

Mr. Grant works on creative thinking, leadership and team development for a number of multinational companies to help create a culture of innovation, including: Nestle, Four Seasons Hotels & Resorts, Disney, Mercedes Benz, Estee Lauder, and many others. He has been featured in a number of international media including BBC, Reuters, Harvard Business review, Fast Company and the Wall St Journal. He has spoken on creativity and leadership as a TEDx speaker, and has worked on pro bono education projects across Asia, including designing educational material that has been targeted to reach over 25 million people in developing countries worldwide.

Mr. Grant is a part of the Wiley Network. The Wiley Network draws on trusted Wiley authors, partners, and subject matter experts as well as professional leaders to share their knowledge and experiences to support learning and professional growth.



**Andrew Grant**  
CEO  
Tirian International  
Consultancy



**Ambassador Robert Holleyman**

Former Deputy United States Trade Representative and President and CEO of C&M International and Partner, Crowell & Moring's International Trade Group

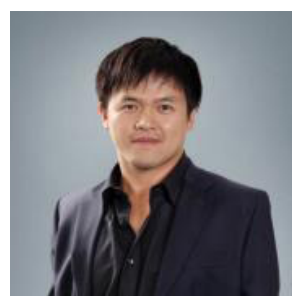
Ambassador Robert Holleyman has significant trade, international business, economic policy, and legal experience from his service as Deputy U.S. Trade Representative, as CEO of C&M International, a highly successful information technology advocacy association, and work as counsel in the U.S. Senate. He served as Deputy United States Trade Representative from 2014-2017, with the rank of Ambassador and was responsible for U.S. trade and investment relations with Asia and with regional institutions, including the Asia-Pacific Cooperation (APEC) forum. In addition, he was responsible for global trade policy in the areas of services, investment, intellectual property, and innovation.

Ambassador Holleyman received his Juris Doctor from Louisiana State University Law School and his Bachelor of Arts degree from Trinity University in San Antonio, Texas, where he was named its 2012 Distinguished Alumnus. He has studied at the Stanford Graduate School of Business. He has served as a board member with charitable and civic institutions in the Washington, D.C. area, including the National Building Museum, the Stephen Decatur House Museum, the Bryce Harlow Foundation, and Food & Friends.

Dr. Huang Dinglong obtained his doctorate degree from Tsinghua University, worked at Google, Microsoft, Tencent, and most recently, the Vice President of Products at TripAdvisor China. He founded Malong Technologies with Matt Scott, who he co-worked on the Microsoft Research "Engkoo" project. The "Engkoo" project generated the most traffic of any Microsoft web search product in China in the early 2010's.

Malong Technologies is on a mission to help its enterprise customers transform with artificial intelligence to achieve higher efficiency, quality and safety. Their world-class R&D team performs award-winning scientific research in deep learning and computer vision, and makes the technology available to any business via ProductAI®, an affordable, accurate and secure cloud-based cognitive services and embedded systems.

Dr. Huang is an Adjunct Master Instructor of the Computer Science Department in Tsinghua University and a Life Mentor of the Industrial Engineering Department. In 2017, he won a provincial award for his contribution to the artificial intelligence industry in China.



**Huang Dinglong**  
Founder & CEO  
Malong Technologies



Since beginning his professorship at Yonsei University in 1987, President Yong-Hak Kim has taken various senior administrative positions, including Vice-Director of Planning, Director of Admissions, and Dean of the University College, the College of Social Sciences, and the Graduate School of Public Administration. He became the 18th President of Yonsei University in February 2016.

Recognized for his academic achievements, Dr. Kim received prestigious awards including the Yonsei University Academic Excellence Award, Gallup Outstanding Paper Award, National Academy of Sciences Outstanding Publication Award, and Ministry of Culture, Sports, and Tourism Outstanding Publication Award. He also served on the editorial boards of the *American Journal of Society* and *Rationality and Society*, the two leading journals in sociology.

Dr. Kim received his bachelor's degree in sociology from Yonsei University, and his master's and doctorate degrees in sociology from the University of Chicago in 1986.



**Yong-Hak Kim**  
President  
Yonsei University



**Frank Lyn**  
Senior Partner  
PriceWaterhouseCoopers  
Hong Kong

Mr. Frank Lyn is the Senior Partner of PwC Hong Kong and the Markets Leader of PwC China and Hong Kong. He is also the Corporate Finance Leader of PwC China and Hong Kong and a member of the PwC Management Board.

Over his 26 years of service in Mainland China, Mr. Lyn has brought accounting services and corporate finance expertise to the Mainland, while promoting the development of China's capital and securities markets. Under his leadership and guidance, PwC has trained numerous world-class accountants to meet the pressing needs of China's accounting market.

Mr. Lyn is the member of the Hong Kong Institute of Certified Public Accountants, member of the Institute of Chartered Accountants in England and Wales, and Certified Dealmaker of China Mergers & Acquisitions Association.

President Nguyen Kim Son was appointed Vietnam National University of Hanoi in 2017. Previously, he served as Vice President of Vietnam National University, Hanoi from January 2012 to February 2016. He also served as the Director of the Center for Chinese Research in the University of Social Sciences and Humanities at Vietnam National University, Hanoi.

Professor Nguyen has published monographs and scientific articles nationally and internationally, with the focus on contemporary Confucianism research in Vietnam.

He received his Bachelor of Arts degree in 1990 from The University of Hanoi. In 1996, he received a Ph.D. in Vietnamese Literature from The University of Hanoi. Later, he studied his Post Doctorate degree in Chinese studies at the Yenching Institute at Harvard University (2007-2008) and was appointed Associate Professor in 2005.



**Nguyen Kim Son**  
President  
Vietnam National  
University, Hanoi



**Nguyen Van Phuc**

Deputy Minister  
The Ministry of  
Education and Training  
of Viet Nam

His Excellency Dr. Nguyen Van Phuc received his education in Vietnam and the Netherlands. He is a leading expert in development economics and social economics. He has published many books and articles on these fields.

Dr. Nguyen started his career as a researcher at Ho Chi Minh City Institute for Development Studies in 1997. He has extensive academic and management experiences in different positions as Deputy Head of Development Research Centre at Ho Chi Minh City Institute for Development Studies; Deputy Dean and then Dean of Economics Faculty of Ho Chi Minh Open University; Vice President and President of Ho Chi Minh Open University.

Dr. Nguyen was appointed the Deputy Minister of the Ministry Education and Training of Vietnam by the President of Vietnam in September 2017. He has received a number of awards and honours from national and international organizations and universities for his outstanding performances and services.

Professor David Qingzhong Pan is Executive Dean of Schwarzman College at Tsinghua University, overseeing the program's daily operations and responsible for organizing an innovative course to encourage active engagement between students and industry leaders. As an entrepreneur, he has worked in the IT industry as an Engineer, Director of R&D, CEO and Chairman, and was granted various awards for technological innovation in China.

Returning to academia in 2004, Professor Pan served as Director of the Development Office of the Tsinghua University School of Economics and Management (SEM), where he was also in charge of activities of the School's Advisory Board, taught courses, and conducted research in managerial economics, corporate governance, and Chinese economic history. He received his B.E. in Applied Mathematics and Computer Science, M.E. in Economics and Ph. D. in Finance from Tsinghua University, and M.S. in Engineering Economic Systems at Stanford University.



**David Qingzhong Pan**

Executive Dean  
Schwarzman College  
Tsinghua University



**Pat Smallcombe**

President for South East  
Asia  
Johnson & Johnson

Mr. Pat Smallcombe is responsible for the entire Johnson & Johnson (J&J) footprint in Southeast Asia, covering their Janssen, Medical Devices, Consumer, LifeScan and Vision Care businesses.

Immediately prior to his appointment as President of J&J in South East Asia, Mr. Smallcombe was the Area Managing Director of the Northern Europe Consumer business. He is an experienced and diverse leader, who has worked across the consumer, over-the-counter, and pharmaceutical businesses and in a variety of areas including regulatory affairs, research & development and commercial leadership. He has held roles in Asia Pacific, Europe, the Middle East and Africa and North America.

Mr. Smallcombe first joined Johnson & Johnson in 2006 as part of the Pfizer Consumer Health (PCH) acquisition. His previous experiences include Managing Director, Consumer Canada; Vice President, Asia Pacific, and Managing Director, Johnson & Johnson Nordic business. At PCH, he served as Managing Director, Pfizer Consumer Healthcare, CEER, Russia, Ukraine and CIS, and previously was Vice President, Research & Development Europe.

Mr. Clay Stobaugh joined Wiley in August 2011 to create corporate marketing capabilities. In his current role as Wiley's Executive Vice President, he heads global marketing, external communications, and government affairs operations. Under Mr. Stobaugh's leadership, Wiley developed the Marketing Revenue Center (MRC), a Wiley global center of excellence to establish best practices that drive revenue. The Center has received much industry recognition including the 2015 Brandon Hall Gold Excellence Award for Best Learning Program Supporting a Change Transformation Business Strategy.



**Clay Stobaugh**  
Executive Vice President  
Wiley

Mr. Stobaugh was selected by the ranking committee of ExecRank as a "Top 100 Chief Marketing Officer" for 2013. He is on the Oracle Customer Experience Council and has served on the CMO advisory groups of Salesforce.com and the CMO Council. Praise for Mr. Stobaugh's work includes features in the *New York Times* with the *Harvard Business Review* recognizing him as a "Performance CMO".

Mr. Stobaugh earned his Bachelor of Arts degree from Tulane University and his MBA from Harvard Business School.



**Christopher Tremewan**  
Secretary General  
Association of Pacific  
Rim Universities

Dr. Christopher Tremewan was elected APRU's forth Secretary General June, 2011. He recently led the transition of the International Secretariat from Singapore to Hong Kong where he formed a new staff-team to implement APRU's strategy for renewed international impact and higher education advocacy.

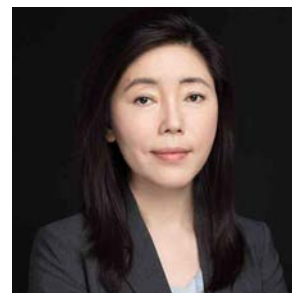
Before heading the APRU Secretariat, he was the Vice-President/Pro Vice-Chancellor (International) of The University of Auckland. He holds bachelor's and master's degrees in social anthropology from the University of Auckland, a Ph.D. in political science (Southeast Asian politics) from the University of Canterbury, and a master's degree in public administration from Harvard University.

He was elected Senior Associate Member of St. Antony's College, Oxford, 1991–1992, where he published *The Political Economy of Social Control in Singapore* (London, New York: St. Antony's /Macmillan/St. Martin's Press) 1994. He has been Visiting Professor at Peking University and Georgetown University.

A specialist on social regulation in Southeast Asia, his research has recently focused on internationalization and inequality. He was a member of an EU-funded collaborative research project on the globalization of higher education and published "Who Will Win the Global Hunger Games? – the Emerging Significance of Research Universities in the International Relations of States" in *The Death of the Public University?* (Oxford: Berghahn 2017).

Dr. Wang Yan is Senior Specialist and Director of the Department for International Exchange at the National Institute of Education Sciences of China. She is concurrently the APEC Education Network Coordinator. Her research focuses on education policy, education reform, and the sociology of education and international studies. She has authored, co-authored, and edited numerous articles, reports, journals, and books on various educational topics.

Prior to joining the NIES, Dr. Wang was a consultant at the World Bank, and a Curriculum Specialist and Coordinator of International Programs at Beijing Education Research Institute. She holds a Ph.D. of Education Policy, Administration, and Social Sciences from The University of Hong Kong, a Master of Educational Economics and Administration, and a first degree in English literature.



**Wang Yan**

APEC Education  
Network Coordinator  
APEC Human Resources  
Development Working  
Group



**Jaeho Yeom**

President  
Korea University

President Jaeho Yeom earned his Ph.D. in political science at Stanford University for his research on Japanese industrial policy for high technology. He has taught public administration at Korea University since 1990. As a visiting researcher at the Institute of Business Research of Hitotsubashi University, in Japan, he conducted research on the policy-making process for semiconductors and the computer industry implemented by the Ministry of International Trade & Industry in Japan. Professor Yeom has also performed research as foreign visiting professor at Tsukuba University in Japan, visiting professor at Griffith University in Australia and Beijing University in China, adjunct professor at Renmin University in China, and Chevening Fellow at CENTRIM at the University of Brighton in the UK.

He served as an expert member of the Korean Presidential Commission of Science and Technology Policy and a Board member of the Korea Science and Engineering Foundation. He also served as President of The Korean Association for Policy Studies in 2007 and President of The Korean Association for Contemporary Japanese Studies in 2008. He is currently Chairperson of the Policy Advisory Committee of the Ministry of Foreign Affairs. He was Executive Vice President of Korea University before being elected as President in March 2015.

# ABOUT APRU

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As a network of leading universities, the **Association of Pacific Rim Universities (APRU)** is the voice of knowledge and innovation for the Asia-Pacific region. We bring together thought leaders, researchers, and policy-makers to exchange ideas and collaborate on effective solutions to the challenges of the 21<sup>st</sup> century.



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The Ministry of Education and Training of Viet Nam is a governmental agency responsible for early childhood education, general education and higher education for the whole country.

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VNU states publicly its position as Vietnam's top comprehensive multi-disciplinary academic and research center of excellence based on international standards for over 100 years. Since its founding, VNU has established itself as a leading institution, both in Vietnam and across the greater region. Staying true to its motto "Excellent through Knowledge," VNU promotes six core values: high-quality education, creativity, innovation, integration, responsibility to society, and sustainable development. VNU seeks to provide Vietnam with high-quality human resources to meet the developmental needs of the society, thus making important contributions to the progress of Vietnam and within this region and the world.

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Elsevier provides information and analytics that help institutions and professionals progress science, advance healthcare and improve performance for the benefit of humanity. Elsevier also helps researchers make new discoveries, collaborate with their colleagues, and gives them the knowledge they need to find funding. It helps governments and universities evaluate and improve their research strategies. It helps doctors save lives, provide insight for physicians to find the right clinical answers, and support nurses and other healthcare professionals throughout their careers. Its goal is to expand the boundaries of knowledge for the benefit of humanity.

### The Wiley Network

### The Wiley Network

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## Acknowledgements

APRU thanks Dr. Alan Bollard, Executive Director, APEC Secretariat, Singapore; Professor Junichi Mori, APRU Senior Advisor, former Vice President of Kyoto University and Visiting Professor, Danang University; Alex Parle, National Center for APEC, USA; and APEC Project DARE.

# **APEC HOST ECONOMIES**

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**2018: Papua New Guinea**


**2019: Chile**


**2020: Malaysia**

**2021: New Zealand**



**APRU International Secretariat**

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