

BỘ KHOA HỌC VÀ CÔNG NGHỆ CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM
Độc lập – Tự do – Hạnh phúc

Số: 1013 /BKHCN-HTQT

V/v đề cử ứng viên tham gia Giải thưởng
APEC về Đổi mới, Nghiên cứu và Giáo
dục (ASPIRE 2019)

Hà Nội, ngày 11 tháng 4 năm 2019

BAN KHOA HỌC CÔNG NGHỆ	
Số: 315	ĐẾN
Ngày: 18/4	
Chị Minh	
Vinh, Thanh PA	

Kính gửi: Đại học Quốc gia TP. Hồ Chí Minh

HÒA-TỐC →

ĐẠI HỌC QUỐC GIA TP.HCM	
Số: 1360	ĐẾN
Ngày: 27/4/2019	
Chuyên: Việc đề cử ứng viên tham gia Giải thưởng APEC về Đổi mới, Nghiên cứu và Giáo dục (ASPIRE 2019) trong khuôn khổ hợp tác của Nhóm Khoa học, Công nghệ và Đổi mới sáng tạo APEC (APEC PPSTI), cụ thể như sau:	

Bộ Khoa học và Công nghệ nhận được thông báo của Ban Thư ký APEC về việc đề cử ứng viên tham gia Giải thưởng APEC về Đổi mới, Nghiên cứu và Giáo dục (ASPIRE 2019) trong khuôn khổ hợp tác của Nhóm Khoa học, Công nghệ và Đổi mới sáng tạo APEC (APEC PPSTI), cụ thể như sau:

1. Chủ đề Giải thưởng ASPIRE 2019: "Phòng thí nghiệm tự nhiên" ("Natural Laboratories").

2. Mục đích:

- Tăng cường các mạng lưới khoa học và công nghệ quốc tế;
- Thúc đẩy phát triển kinh tế, thương mại và cơ hội đầu tư đáp ứng mục tiêu phát triển bền vững thông qua việc chia sẻ chính sách, đổi mới trong nghiên cứu và phát triển, công nghệ mới và chia sẻ vốn hiểu biết;
- Đẩy mạnh các liên kết cũng như hiệu quả giữa nghiên cứu và đổi mới.

3. Tiêu chuẩn ứng viên:

- Là công dân của các nền kinh tế thành viên APEC, tuổi dưới 40 tính đến ngày 31/12/2019.
- Là các nhà khoa học trẻ tài năng, có những công trình nghiên cứu khoa học và công nghệ tiêu biểu được công bố quốc tế; có những đóng góp tiêu biểu thúc đẩy quá trình đổi mới, trong các lĩnh vực như: sinh học, hóa học, khoa học môi trường, vật lý và các lĩnh vực liên quan khác thuộc chủ đề ASPIRE 2019: "Phòng thí nghiệm tự nhiên".

4. Quy trình tuyển chọn: Mỗi nền kinh tế thành viên APEC sẽ đề cử 01 ứng viên tiêu biểu làm đại diện. Sau đó, các nền kinh tế thành viên APEC sẽ tiến hành xếp hạng các ứng viên theo biểu mẫu xếp hạng thứ tự do Ban Thư ký APEC đưa ra. Ban Thư ký APEC sẽ tiến hành công tác tổng hợp và dự kiến sẽ hoàn tất công tác lựa chọn trước ngày 24/5/2019.

5. *Yêu cầu về hồ sơ*: Hồ sơ các ứng viên gửi về Bộ Khoa học và Công nghệ (Vụ Hợp tác quốc tế) bao gồm:

- Công văn đề cử ứng viên có dấu đỏ của Cơ quan chủ quản;
- Bản Sơ yếu lý lịch Tiếng Anh và Tiếng Việt;
- Bản tóm tắt công trình nghiên cứu được công bố quốc tế trong các lĩnh vực liên quan đến chủ đề của Giải thưởng ASPIRE 2019 (Tiếng Anh và Tiếng Việt);
- Tờ khai thông tin ứng viên theo mẫu do Ban Thư ký APEC gửi (đính kèm theo Công văn);
- Thư đề cử ứng viên;
- Ảnh chụp của ứng viên (ảnh chụp phải lớn hơn 250*300 pixel).

Bộ Khoa học và Công nghệ trân trọng đề nghị Quý Cơ quan xem xét lựa chọn 01 ứng viên phù hợp tham gia Giải thưởng ASPIRE 2019, và gửi công văn trả lời *trước ngày 06/5/2019* để tiến hành thủ tục cần thiết tiếp theo và thông báo cho Ban Thư ký APEC.

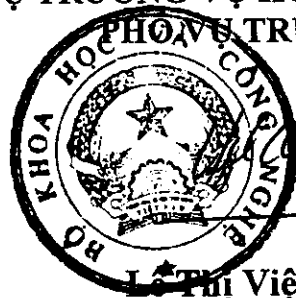
Mọi thông tin xin liên hệ: đ/c Bùi Thị Thu Lan, Vụ Hợp tác quốc tế, Bộ Khoa học và Công nghệ, Tel: 02439439192, Fax: 02439439987.

Trân trọng cảm ơn sự hợp tác của Quý Cơ quan./.

Nơi nhận:

- Như trên;
- TTr. Bùi Thế Duy (để b/c);
- Lưu: VT, HTQT.

TL. BỘ TRƯỞNG
KT. VỤ TRƯỞNG VỤ HỢP TÁC QUỐC TẾ
PHÓ VỤ TRƯỞNG



Lê Thị Việt Lâm



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APEC SCIENCE PRIZE for INNOVATION, RESEARCH and EDUCATION (ASPIRE)

OVERVIEW

The APEC Science Prize for Innovation, Research and Education (“ASPIRE”) is an annual award which recognizes young scientists who have demonstrated a commitment to both excellence in scientific research, as evidenced by scholarly publication, and cooperation with scientists from other APEC member economies.

The ASPIRE Prize supports APEC’s mission to:

- strengthen international science and technology networks;
- enhance economic growth, trade and investment opportunities in harmony with sustainable development, through policies, innovative R&D and technologies, and knowledge sharing; and
- improve linkages and efficiency between research and innovation.

ASPIRE 2019 NOMINATION THEME: NATURAL LABORATORIES

Each year the APEC host economy is asked to provide a theme to guide nominations for the ASPIRE Prize to be awarded in their host year. **For its host year of 2019 Chile selects “Natural Laboratories” as the ASPIRE nominating theme.** This theme focuses on how scientists are utilizing natural laboratories to benefit society through applications such as preventing disease by observing biodiversity, identifying infrastructure risks by drawing insights from weather patterns, and preserving populations through enhanced detection of tectonic activity.

Each member economy, through its representative on the APEC Policy Partnership for Science, Technology and Innovation (PPSTI), is invited to nominate one young scientist under the age of 40 to be considered for the 2019 ASPIRE Prize. Nominees should demonstrate a commitment to excellence in scientific research and cooperation with scientists from other APEC member economies in subjects such as: **biology, chemistry, environmental science, physics, and other relevant fields.**

ELIGIBILITY

Any citizen of an APEC member economy is eligible to be nominated for the ASPIRE Prize. He/she must be living at the time of his/her nomination and be under the age of 40 as of 31 December of that year (i.e., all 2019 nominees must be under the age of 40 as of 31 December 2019).

SELECTION PROCESS

Each member economy, through its representative on the APEC Policy Partnership for Science, Technology and Innovation (PPSTI), is invited to nominate one young scientist under the age of 40 to be considered for the 2019 ASPIRE Prize.

Once nominations are received, PPSTI members rank the nominees through a selection ballot to determine the winner. PPSTI members are asked to judge the nominees based on how well they have demonstrated:

- excellence in scientific research, as evidenced through scholarly publication;
- commitment to cooperation with scientists from other APEC member economies; and
- contribution to the theme of “Natural Laboratories.”

ASPIRE PRIZE SPONSORS

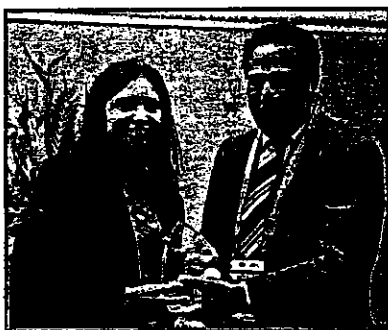


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Wiley and Elsevier, two of the world's leading publishers of scholarly scientific knowledge, have generously committed to funding prize money in the amount of \$25,000 USD.

PREVIOUS ASPIRE PRIZE WINNERS



2018: Smart Technologies for Healthy Societies

Dr. Madhu Bhaskaran of Australia was awarded the 2018 ASPIRE Prize in Port Moresby by Hon. Pila Niningi, Minister for Higher Education, Research, Science and Technology of Papua New Guinea. Dr. Bhaskaran is a professor at RMIT University, Melbourne, Australia where her work transforms the way we imagine, use and interact with electronic devices and sensors. She has developed ways to combine functional oxide materials processed at high temperatures with elastic and plastic materials. Her work has led to the development of wearable elastic electronics and sensors, including gas and UV sensors and flat optical devices—all of which are stretchable, optically transparent and as thin as a nicotine patch.



2017: New Material Technologies

Dr. Yanwu Zhu of China was awarded the 2017 ASPIRE Prize in Ha Noi by Deputy Minister of Science and Technology of Viet Nam, Tran Quoc Khanh. Dr. Zhu is a Professor at the University of Science and Technology of China where he researches the fields of nanomaterials and specifically new carbon materials. His publications have been widely cited and his research with other APEC scientists has been applied in large-scale production of graphene materials.



2016: Technologies for Food Security

Dr. Hua Kuang of China was awarded the 2016 ASPIRE Prize in Lima by Dr. Gisella Orjeda, President of the Peruvian National Council for Science, Technology and Technological Innovative (CONCYTEC). Dr. Kuang is a Professor at Jiangnan University's School of Food Science and Technology in Wuxi, China, where she works with researchers in other APEC economies to develop low-cost biosensors that detect food sanitation hazards. Her patented technologies have been used to improve food safety for millions in China and elsewhere.



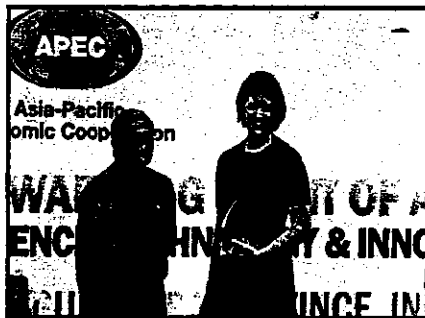
2015: Disaster Risk Reduction: Understanding the Role of Climate Change and Variability

Dr. Jong-Seong Kug of Korea was awarded the 2015 ASPIRE Prize in Manila by Secretary Mario Montejo of the Philippine Department of Science and Technology. Dr. Kug is an Associate Professor at Pohang University of Science and Technology's School of Environmental Science and Engineering in Korea, and his El Niño prediction model has helped the Korea Meteorological Administration better understand tropical climate dynamics, and forecast and track extreme weather—an area that addressed Philippines' theme of "Disaster Risk Reduction: Understanding the Role of Climate Change and Variability."



2014: Intelligent Transportation

Dr. Agachai Sumalee, a Thai professor at the Hong Kong Polytechnic University, was awarded the 2014 ASPIRE Prize by Cai Jianlin, China's Vice Minister of Science and Technology. China selected the theme of "Intelligent Transportation" to reflect China's interest in facilitating green and sustainable growth, environmental protection and low-carbon economies. Dr. Sumalee designed a model in collaboration with researchers from across the APEC region that allows highway managers to predict traffic conditions and prevent congestion. This led to ground breaking road traffic management system that slashed commuting times in the greater Bangkok area.



2013: Sustainable Ocean Development

In 2013 the ASPIRE Prize was awarded by Gusti M. Hatta, Indonesia's Minister of Research and Technology, to Dr. Carissa Klein of Australia. Dr. Klein's research with the University of Queensland uniquely addressed the 2013 ASPIRE nominating theme of "sustainable ocean development" by striking a balance between biodiversity conservation and socioeconomic viability. Her work has helped two APEC member economies—Malaysia and the United States—sustainably zone the ocean for fishing and conservation.



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2012: Health Innovation

Dr. Rossa Wai Kwun Chiu of Hong Kong, China was awarded the 2012 ASPIRE Prize. Russia selected "health innovation" as its ASPIRE nominating theme, building on its desire that APEC actively foster cooperation among economies in major innovation areas, such as human health, to support healthy lifestyles, productivity and economic growth. Dr. Chiu's groundbreaking research and innovations in chemical pathology has brought non-invasive prenatal diagnosis of fetal genetic diseases into routine clinical use around the world.



2011: Green Growth

In 2011 the ASPIRE Prize was awarded by Nobel Laureate and U.S. Secretary of Energy Steven Chu to Dr. Ali Javey of the United States. The United States selected "green growth" as its ASPIRE nominating theme, building on its desire that APEC actively promote environmentally sustainable economic growth and development, and help our economies successfully transition to a clean energy future. Dr. Javey's innovative work with nanomaterials has made great strides in developing a new generation of solar energy technology and reducing energy consumption in "green electronics."

Enclosures

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ASPIRE 2019 Selection Process & Key Dates

ACTIONS	SUPPORTING DOCUMENTS IN PACKET	DATE
<p>EACH APEC ECONOMY SEEKS LOCAL NOMINATIONS</p> <p>Each APEC member economy, through its PPSTI representative, is requested to seek nominations from within his or her economy before one nominee is selected to represent the economy at large. It is recommended that nominations be actively solicited from top educational and research institutions within the economy.</p> <p>Example local nomination process:</p> <p>Step 1—Seek Local Nominations: PPSTI representative to send <i>Nomination Form</i> and accompanying <i>Letter to Local Educational and Research Institutions</i> requesting them to publicize/promote the ASPIRE Prize through a call-for-nominations. Local competitions held by prominent institutions to publicize/promote the ASPIRE prize are highly encouraged.</p> <p>Step 2—Establish Peer Review Panel to Select Economy's One Nominee: PPSTI representative to receive completed local nomination applications (completed <i>Nomination Forms</i>) and establish a panel to judge the applications and select one nominee.</p>	<p>Step 1 documents</p> <ul style="list-style-type: none"> • Nomination Form • Letter to Local Educational and Research Institutions <p>Step 2 documents</p> <ul style="list-style-type: none"> • Example Applicant Review Sheet 	<p>Step 1 Suggested Timing: Early March</p> <p>Step 2 Suggested Deadline: Mid April</p>
<p>EACH APEC ECONOMY SUBMITS ONE NOMINEE</p> <p>Each APEC member economy submits <u>one nominee</u> to represent his/her economy for the 2019 ASPIRE Prize. Submissions are made via e-mail <u>before May 24</u> to PPSTI Program Director, Ms. Zhongzhen LIU (lzz@apec.org). The submission should include 1) The nominee's <i>Nomination Form</i>; 2) the <i>Member Economy Nomination Cover Letter</i></p>	<ul style="list-style-type: none"> • Nomination Form • Member Economy Nomination Cover Letter 	<p>Deadline: <u>24 May</u></p>

ACTION	DATE
	By: 10 June



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<p>PPSTI PROGRAM DIRECTOR SENDS PROFILES TO PPSTI REPRESENTATIVES</p> <p>The PPSTI Program Director will collate the nominations received from each member economy and distribute them to PPSTI members for ranking.</p> <p>Sponsors shall provide Scopus profiles, as available, for each economies' nominee to assist PPSTI members in their ranking.</p>	
<p>APEC ECONOMIES RANK NOMINEES AND SUBMIT SELECTION BALLOT</p> <p>Each APEC member economy, through its PPSTI representative, is requested to rank the nominees and submit a selection ballot to the PPSTI Program Director by <u>5 July</u>.</p>	<p>Deadline: <u>5 July</u></p>
<p>PPSTI PROGRAM DIRECTOR COMPILES SELECTION BALLOT</p> <p>The PPSTI Program Director shall compile and forward the results and the completed selection ballots to the PPSTI Chair to confirm the winner. <i>*In case of a tie, the PPSTI Chair will determine the winner.</i></p>	<p>By: 9 July</p>
<p>NOTIFY PPSTI MEMBERS OF 2019 ASPIRE WINNER</p> <p>The PPSTI Chair and the ASPIRE sponsors jointly notify PPSTI members of the 2019 ASPIRE winner.</p>	<p>By: 15 July</p>
<p>NOTIFY 2019 ASPIRE WINNER</p> <p>The PPSTI Chair and the ASPIRE sponsors jointly notify the 2019 ASPIRE winner.</p>	<p>By: 22 July</p>
<p>AWARD CEREMONY</p> <p>The winner of the 2019 ASPIRE Prize is recognized at an award ceremony during the PPSTI meeting in Chile.</p>	<p>August TBD</p>



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2019 APEC Science Prize for Innovation, Research and Education

LOCAL NOMINATION FORM FOR [INSERT ECONOMY]

**DUE DATE: [INSERT YOUR ECONOMY'S NOMINATION
DEADLINE -- SUGGESTED MID APRIL DEADLINE]**



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ASPIRE 2019 Letter to Local Educational and Research Institutions

Dear [NAME]:

It is with great enthusiasm that we announce that nominations are being sought to represent [INSERT ECONOMY] for the 2019 APEC Science Prize for Innovation, Research and Education (ASPIRE Prize). Sponsored by Wiley and Elsevier, two of the world's leading publishers of scholarly scientific knowledge, the ASPIRE Prize is an annual award that recognizes young scientists who have demonstrated a commitment to both excellence in scientific research and cooperation with scientists from other APEC member economies.

[INSERT ECONOMY] may nominate one young scientist from [INSERT ECONOMY] under the age of 40 to be considered for the 2019 ASPIRE Prize. These finalists will then be considered by the full APEC Policy Partnership for Science, Technology, and Innovation (PPSTI) for selection as the 2019 ASPIRE Prize winner, with prize money in the amount of \$25,000 USD. We encourage your institution to use the enclosed "NOMINATION FORM" to send us distinguished young scientists for consideration by [DATE - SUGGEST MID APRIL DEADLINE].

Each year the APEC host economy provides a theme to guide the ASPIRE prize. For its host year of 2019 Chile selects "Natural Laboratories" as the ASPIRE nominating theme. This theme focuses on how scientists are utilizing natural laboratories to benefit society through applications such as preventing disease by observing biodiversity, identifying infrastructure risks by drawing insights from weather patterns, and preserving populations through enhanced detection of tectonic activity.

We encourage you to nominate nominees who have demonstrated a commitment to excellence in scientific research and cooperation with scientists from other APEC member economies in subjects such as: biology, chemistry, environmental science, physics, and other relevant fields.

We thank you for your institution's contributions to the APEC region's scientific community and look forward to reviewing your nominees.

Best regards,

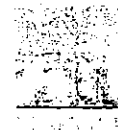
Dr. Fabiola Leon-Velarde Servetto
PPSTI Chair
Executive Director
Consejo Nacional de Ciencia,
Tecnología e Innovación Tecnológica
(Concytec) Peru

Mr. Andrew Tein
Vice President
Global Government Affairs
Wiley
ASPIRE Prize Sponsor

Dr. Brad Fenwick
Senior Vice President for
Global Strategic Alliances
Elsevier
ASPIRE Prize Sponsor



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INSTRUCTIONS: Thank you for your interest in being selected to represent [INSERT YOUR APEC ECONOMY] for the 2019 ASPIRE Prize. Please send all required documents below and submit to: [INSERT CONTACT NAME AND E-MAIL FOR YOUR ECONOMY'S PPSTI DELEGATE]

REQUIRED DOCUMENTS:

- 1) Nomination form;
- 2) Nominee's Curriculum Vitae;
- 3) One letter of recommendation for consideration;
- 4) A photo of nominee (image must be larger than 250*300 pixels)

THE DEADLINE IS: [INSERT DATE – SUGGESTED MID APRIL DEADLINE. MUST ALLOW YOUR ECONOMY ENOUGH TIME TO MAKE A DECISION ON YOUR ONE NOMINEE AND SEND IT TO MS. LIU BY MAY 24]

<p>SECTION 1 OF 5 - Nomination Statement (up to 300 words): Please describe how the nominee has demonstrated excellence in scientific research in the field of "Natural Laboratories" and cooperation with scientists from other APEC member economies. Please also include 1-3 "tweets" that could be published on Twitter summarizing the nominee's research.</p>	
SECTION 2 OF 5 - Nominee Information	
Member Economy:	
Last Name:	First Name:
Date of Birth (day/month/year):	
Address:	
Telephone:	Email:
Title:	
Institution/Affiliation:	
Field of Research:	
<p>SECTION 3 OF 5 - List of Peer Reviewed Scholarly Publications: Please list the nominee's peer reviewed publications (publication titles should be translated into English). The nominee's record of scholarly publication will be evaluated on its merits, and nominees are encouraged to include publications regardless of the publisher. Please continue onto separate page if necessary.</p>	



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Please denote which scholarly publications include co-authors from APEC member economies, for example:

1. A.S. Barnard, H. Konishi, H. Xu, 'Morphology mapping of platinum catalysts over the entire nanoscale', *Catal. Sci. & Tech.* (2011) accepted [APEC Authors]
2. H. Guo, A.S. Barnard, 'Computational challenges in accurate modeling of iron oxides and oxyhydroxides, and the prediction of environmentally sensitive phase transformations', *Phys. Rev. B*, 83 (2011) 094112
3. L.Y. Chang, E. Osawa, A.S. Barnard, 'Confirmation of the electrostatic self-assembly of nanodiamonds', *Nanoscale*, 3 (2011) 958 [APEC Authors]

SECTION 4 OF 5 - Other Awards/Achievements/Contributions to market-led innovations: Please list below in English; please continue onto separate page if necessary.

Please denote which, if applicable, have a connection to other APEC member economies.

SECTION 5 OF 5 – Local Nominator Information (If Nomination Form is submitted by nominee himself or herself, do not fill out this section)

Last Name:	First Name:
Telephone:	Email:



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Relation to Nominee (if any):
Title:
Institution/Affiliation:
Nominator Signature (typed):

Remember to include the following attachments along with this Nomination Form:

- **Nominee's Curriculum Vitae**
- **One letter of recommendation**
- **Photo of nominee (image must be larger than 250*300 pixels):**



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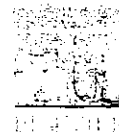
2019 APEC Science Prize for Innovation, Research and Education

EXAMPLE APPLICANT REVIEW SHEET

Note: After receiving local nominations within the APEC economy, it is suggested that the PPSTI representative establish a panel to judge the applications and select one nominee.



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ASPIRE 2019 Example Applicant Review Sheet

Candidate Name:

Nominating Institution:

TOTAL SCORE:

Candidate meets eligibility requirements:

- Yes, candidate will be under the age of 40 as of December 31, 2019.
- Yes, candidate is a citizen of an APEC economy.

Criteria 1: Excellence in scientific research as evidenced by scholarly publication (10 being the highest and 1 being the lowest)

1 ○	2 ○	3 ○	4 ○	5 ○	6 ○	7 ○	8 ○	9 ○	10 ○
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Comments:

Criteria 2: Cooperation with scientists from other APEC member economies

1 ○	2 ○	3 ○	4 ○	5 ○	6 ○	7 ○	8 ○	9 ○	10 ○
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Comments:

Criteria 3: Contribution to this year's theme of "Natural Laboratories."

1 ○	2 ○	3 ○	4 ○	5 ○	6 ○	7 ○	8 ○	9 ○	10 ○
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Comments:



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2019 APEC Science Prize for Innovation, Research and Education

MEMBER ECONOMY NOMINATION COVER LETTER

APEC ECONOMY: [INSERT ECONOMY]
DUE DATE: May 24, 2019

FOR COMPLETION BY APEC ECONOMY PPSTI DELEGATE ONLY

Note: Each APEC member economy should select their one nominee for the 2019 ASPIRE Prize – as well as submit their nomination to the Program Director and the Program Executive of the APEC PPSTI



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ASPIRE 2019 Member Economy Nomination Cover Letter

Member Economy	
Name of Economy Nominee	
Last Name:	First Name:
Economy Nominator Information (PPSTI Delegate)	
Last Name:	First Name:
Telephone:	Email:
Relation to Nominee (if any):	
Title:	
Institution/Affiliation:	
Nominator Signature (typed):	

Remember to append all nomination documents with this cover letter:

- Nomination Form
- Nominee's Curriculum Vitae
- One letter of recommendation
- Photo of nominee (image must be larger than 250*300 pixels):

Please submit all nomination documents along with this nomination cover letter to Ms. Zhongzhen LIU (lzz@apcc.org) before **24 May 2019**.