



## **The 19<sup>th</sup> Science Council of Asia Conference**

**“Research and Innovation for Sustainable  
Development in Asia”**

**Nay Pyi Taw, Myanmar**

**3<sup>rd</sup> - 5<sup>th</sup> December 2019**

**Organized by:**

**Myanmar Academy of Arts and Science (MAAS)**

**FIRST ANNOUNCEMENT and CALL FOR PAPERS**



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## Concept paper:

The conference on “Research and Innovation for Sustainable Development in Asia” will feature eminent keynote and plenary speakers. It will also involve parallel sessions and poster sessions on the various areas of the theme.

This conference makes a timely response to the UN Sustainable Development Goals otherwise known as the Global Goals. It is a universal call for action to ensure the health of the Planet Earth and the welfare and survival of all living beings who call it home. The successful implementation of these goals depends on joint cooperative efforts of the people who, with their vast and accumulated knowledge, have built cultures and civilizations, but who at the same time misused the advances made in science and technology to bring upon the world the current climate change crisis and environmental devastation. To repair the damage done in cooperation and collaboration is crucial in terms of peace and prosperity for the present as well as for future generations. At present, people are at the crossroads facing conflicting priorities between the need to sustain life-supporting ecosystems and yet seek development for the growing world population. We cannot heedlessly pursue economic growth; what we seek must be a modest lifestyle that creates livelihoods that could alleviate poverty and fulfill the socio-economic needs of the people yet cherish and nurture the abundant gifts of nature.

With respect to Myanmar, it is generally known as a small country but rich in natural resources. On the other hand, unfortunately, Myanmar happens to be one of the most vulnerable countries in the Asian region and is prone to natural disasters due to climate change and global warming. Many of our Asian neighbours are also facing the same threats and challenges as Myanmar. Today, developing countries are confronting the dilemma of the need for further development and the necessity to conserve and care for the environment without causing further damage. Education is therefore at the heart of every individual, community and regional development. We, in Myanmar, need to catch up with the rest of the world in all sectors – be it in science and technology, agriculture, commerce, industrialization or manufacturing – and speed up the momentum of achieving the national goal of becoming an upper Middle-Income Country by 2030.



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The migration of people from rural to urban areas is another urgent issue that threatens the economic conditions of the agro-based rural community. It creates problems of land encroachment, proliferation of slums, traffic congestion, shortage of food and water as well as other social amenities such as education, health care, energy, etc. These are the challenges confronting us, not only in Asia but also across the globe. It is imperative that we strive to implement the 17 Sustainable Development Goals by 2030. It is the duty of the present generation, to build a Greener Asia and enhance the quality of life for our people.

The aim of this conference is to provide a venue where diverse views on Sustainable Development from the aspect of many sciences as well as those from the social, cultural and humanitarian perspectives can be discussed. Participants can freely exchange their views in a favourable intellectual atmosphere, and it is hoped that this conference will lead to further interdisciplinary studies that will open new pathways to more advanced sciences and new technologies that will protect and nurture the Planet Earth and all who inhabit it.

The main theme and sub-themes of the conference have been carefully selected in order to inspire scholars and researchers in Asia to undertake research in partnership to contribute towards the realization of the 17 Sustainable Development Goals.

## **Main theme of conference**

**“Research and Innovation for Sustainable Development in Asia”**

## **The sub-themes and focus areas**

The Program of the Conference will involve four parallel sessions where papers relevant to the sub-themes can be presented and to encourage interaction and fruitful discussions among researchers, scientists and scholars of multi-disciplines through sharing of know-how and expertise in their respective fields.



Participants are welcome to submit research paper with an abstract not exceeding 200 words. It should be in line with one of the following sub-themes and any of its subsequent focus areas: –

### Revitalize Asian Partnership for achieving Sustainable Development

- Ensure access to affordable, reliable, sustainable and modern energy for all
- Build resilient infrastructure, promote sustainable industrialization and foster innovation
- Development of Healthy Cities
- Take urgent action to mitigate and adapt to climate change and its impact
- Disaster Risk Reduction

### Promote Skills Development for Economic Growth

- Decent work, economic growth and employment
- Quality education, ensure inclusive and quality education for all and promote lifelong learning
- Ensure that all girls and boys take completely free, equitable and quality primary and secondary education
- Ensure that all learners acquire the knowledge and skills needed to promote sustainable development



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## Diversify Utilization of Natural Resources for Sustainable Development

- Ensure access to water and sanitation for all
- Ensure sustainable consumption and production patterns of energy sources
- Conserve and sustainable use of the oceans, seas and marine resources and protect rivers
- Manage forests and halt biodiversity loss

## Alleviate Poverty through Socio-economic Development

- End poverty in all its forms everywhere
- End hunger, achieve food security and promote sustainable agriculture
- Medical care for good health and well-being

### Call for abstracts:

Applicants are invited to submit a half-page abstract of their paper in English (MS Word, 11 points, refer to the attached sample abstract limited up to 200 words) by email (sca19@maas.edu.mm) or through the following HP at <http://www.maas.edu.mm/sca19/> by 18th July 2019.

### Important dates:

- 18<sup>th</sup> July 2019 Abstract and registration form submission due
- 30<sup>th</sup> August 2019 Notification of the acceptance of the abstract
- 5<sup>th</sup> October 2019 Submission due of full paper
- 12<sup>th</sup> November 2019 Submission due of presentation material
- 3<sup>rd</sup> – 5<sup>th</sup> December 2019 The 19<sup>th</sup> Science Council of Asia Conference

### Organizing institutions:

The Science Council of Asia (SCA) is an international scientific organization founded in 2000 by Asian science academies and other national scientific organizations. SCA aims to provide scientists in all fields, including cultural and social as well as natural sciences and technology, with a collaborative platform for promoting scientific exchange and



cooperation in Asia, and to develop and promote a holistic vision focusing on sustainable development and improvement in quality of life. At present, SCA is comprised of 32 academic organizations in Asia, and SCA Conference has been held annually since 2001.

Myanmar Academy of Arts and Science (MAAS) is an academic organization of around 700 members constituted on 16 August 1999 by the Ministry of Education with the approval of the Government of Myanmar. Some members are still in service, many are retirees with mature academic experience and other scholars of wide repute in Arts and Science; about fifty-five percent are women. The Executive Committee comprising 23 members formed by the Ministry has the responsibilities to enhance coordination and cooperation between the faculties of 40 or so higher education institutions, and the current executive committee has been devising ways to include more Myanmar research talent and knowledge-based professionals in order to produce significant outcomes of research and innovation in science and socioeconomic transformation processes.

The MAAS with the strength of collective insight, knowledge and expertise is fully committed to:

- 1) Support in drawing the framework in teaching-learning processes, curriculum developments and research activities of the local universities network.
- 2) Involve in programs and measures for improving the education aspirations, training expertise of citizens and enhancing opportunities for lifelong learning in the country
- 3) Continue to help fulfill the national aspirations of the State and its people.

In its 20 years of establishment, the Academy has held 16 local conferences where researchers from several disciplines of higher education institutions took part in accordance with the Academy's mission of disseminating knowledge and enriching the national educational workforce of the country. Outstanding researchers from many academic disciplines are awarded at each annual conference.

Myanmar also recognizes the need to adjust to a rapid technology change and rely more on science and technology in various fields, be it agriculture, business, commerce or manufacturing. Myanmar in a global community is no exception facing common challenges



of different kinds; and the Academy in the network of national and international higher education institutions is involved in an attempt to achieve Sustainable Development Goals within National contexts and time frame.

Myanmar as a country obtained membership at the 12<sup>th</sup> Science Council of Asia Conference, 2012, Indonesia. The Myanmar Academy of Arts and Science became a member of Science Council of Asia at the 14<sup>th</sup> Conference, 2014, Malaysia. By having a stronger link with SCA in recent years and its scientific community, the MAAS has now the privilege of organizing the upcoming 19<sup>th</sup> SCA Conference in December 2019.

## **Tentative programme of conference and activities:**

### **[Day 1] Tuesday, 3<sup>rd</sup> December 2019**

08:00 – 09:10 Registration

09:10 – 09:30 Opening Session

09:30 – 10:30 Keynote Address

10:30 – 11:00 Tea Break

11:00 – 12:30 Parallel Sessions

12:30 – 14:00 Lunch Break

13:00 – 14:00 Poster Session

14:00 – 15:30 Parallel Sessions

14:00 – 15:00 SCA Management Board Meeting ✕SCA Board Members Only

15:30 – 16:00 Tea Break

16:00 – 17:30 Joint Project Workshop, Parallel Sessions

18:00 – 20:00 Welcome Dinner Reception (hosted by MAAS) ✕Invitation Only



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## [Day 2] Wednesday, 4<sup>th</sup> December 2019

09:00 – 10:30 Keynote Address

10:30 – 11:00 Tea Break

11:00 – 12:30 Parallel Sessions

12:30 – 14:00 Lunch Break

13:00 – 14:00 Poster Session

14:00 – 15:30 Parallel Sessions

15:30 – 16:00 Tea Break

16:00 – 17:30 Parallel Sessions

17:30 – 18:30 SCA Management Board Meeting ※ SCA Board Members Only

18:00 – 20:00 Farewell Dinner Reception (hosted by SCJ) ※Invitation Only

## [Day 3] Thursday, 5<sup>th</sup> December 2019

09:00 – 10:30 Parallel Sessions

10:30 – 11:00 Tea Break

11:00 – 12:00 Parallel Sessions

12:00 – 13:00 Lunch Break

13:00 – 14:00 Closing Session

14:00 – 18:00 Study Tour \*Only for the International Participants. Reservation is required beforehand.



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## Registration fee for participants:

Free (All participants should have acceptance). The following local expenses during the period of conference for selected number of participants will be covered by MAAS and SCJ:

- Conference materials
- Welcome dinner reception (3<sup>rd</sup> December)
- Farewell Dinner (4<sup>th</sup> December)
- Lunch (3<sup>rd</sup> - 5<sup>th</sup> December\*)

## Language:

English is the official language of the conference. English will be used for all the printed materials, presentations and discussions.

## Venue:

### GRAND AMARA HOTEL

Nay Pyi Taw, Myanmar



Contact to "Grand Amara"

**Address** : No.(5,6), Jade Villa, Dakhina Thiri Township, Nay Pyi Taw, Myanmar.  
**Phone** : (+95) 67 8105174~78  
**Fax** : (+95) 67 8105210  
**Mobile** : (+95) 67 8105333  
**Email** : reservation.grandamara@thehotelamara.com  
www.grandamarahotel.com

## Weather:

Average temperature in December: 20 degrees C. Fairly dry.

## Accommodation:

Participants will cover their own accommodation fees.  
If necessary, hotel information in Nay Pyi Taw will be provided.



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## Visa:

Persons coming from certain countries must have a visa issued by a Myanmar embassy in their country. Please be aware that in some cases it takes more than one month to obtain a visa. For details, please contact the Myanmar embassy or consulate near you.

## Science Council of Asia

### President

Prof. Dr. Wang Xi, Vice President, China Association for Science and Technology (CAST)

### Vice President

Prof. Dr. Thet Lwin, President, Myanmar Academy of Arts and Science (MAAS)

### Immediate-Past President

Prof. Quazi Abdul Fattah, President, Bangladesh Academy of Sciences (BAS)

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## Myanmar Academy of Arts and Science:

President, Prof. Dr. Thet Lwin

Vice-President, Prof. Dr. Daw Kyi Kyi Hla

Vice-President, Prof. Dr. Aung Min



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## Local Organizing Committee

Patron, H.E. Prof. Dr Myo Thein Gyi (Union Minister, Ministry of Education)

Patron, Prof. Dr Myo Kywe (Chair, NEPC)

Chair, Prof. Dr. Thet Lwin

Vice Chair, Prof. Dr. Daw Kyi Kyi Hla

Vice Chair, Prof. Dr. Aung Min

Secretary, Prof Dr Thein Win

Joint Secretary, Prof Dr Phoe Kaung

Joint Secretary, Prof Dr Nay Win Oo

## Contact Information

### All correspondence should be addressed to:

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## The 19th Science Council of Asia Conference

3rd – 5<sup>th</sup> December 2019, Nay Pyi Taw, Myanmar

### REGISTRATION FORM

Please send completed registration form and abstract to: sca19@maas.edu.mm

\* Should you make a registration and send your abstract through the website, submission of this form is not required.

Title:	Prof. [ ]	Dr. [ ]	Mr. [ ]	Mrs. [ ]	Ms. [ ]	Other [ ] (Please Specify)
First Name:						
FamilyName:						
Midle Name:						
Nationality						
Affiliation:						
Position:						
Address:						
Telephone:	+		Fax:			
Email:			Male [ ]		Female [ ]	

\* Note: Participants will cover their own transportation and accommodation fees.



## Theme of the Paper:

Please select up to two Sub-themes (either one or two) which is/are the closest to that of your paper by checking the following box. However, your selection might not guarantee that you can present your paper at the session of the selected Sub-theme(s).

1	2	<i>Theme</i>
		<b>Research and Innovation for Sustainable Development in Asia</b>
1	2	<i>Sub-theme</i>
<input type="checkbox"/>	<input type="checkbox"/>	<b>Revitalize Asian Partnership for Achieving Sustainable Development</b> <i>Focus areas</i> <ul style="list-style-type: none"> <li>▪ <i>Ensure access to affordable, reliable, sustainable and modern Energy for all</i></li> <li>▪ <i>Build resilient infrastructure, promote sustainable industrialization and foster innovation</i></li> <li>▪ <i>Development of Healthy Cities</i></li> <li>▪ <i>Take urgent action to mitigate and adapt to climate change and its impact</i></li> <li>▪ <i>Disaster Risk Reduction</i></li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	<b>Promote Skills Development for Sustainable Economic Growth</b> <i>Focus areas</i> <ul style="list-style-type: none"> <li>▪ <i>Decent work, economic growth and employment</i></li> <li>▪ <i>Quality education, ensure inclusive and quality education for all and promote lifelong learning</i></li> <li>▪ <i>Ensure that all girls and boys take completely free, equitable and quality primary and secondary education</i></li> <li>▪ <i>Ensure that all learners acquire the knowledge and skills needed to promote sustainable development</i></li> </ul>



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<input type="checkbox"/>	<input type="checkbox"/>	<p><b>Diversify Utilization of Natural Resources for Sustainable Development</b></p> <p><i>Focus areas</i></p> <ul style="list-style-type: none"><li>▪ Ensure access to water and sanitation for all</li><li>▪ Ensure sustainable consumption and production patterns of energy sources</li><li>▪ Conserve and sustainable use of the oceans, seas and marine resources and protect rivers</li><li>▪ Manage forests and halt biodiversity loss</li></ul>
<input type="checkbox"/>	<input type="checkbox"/>	<p><b>Alleviate Poverty through Socio-economic Development</b></p> <p><i>Focus areas</i></p> <ul style="list-style-type: none"><li>▪ <i>End poverty in all its forms everywhere</i></li><li>▪ <i>End hunger, achieve food security and promote sustainable agriculture</i></li><li>▪ <i>Medical care for good health and well – being</i></li></ul>

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(Sample format of abstract)

**Title of the paper**

**First author<sup>1</sup>, second author<sup>2</sup>, and third author<sup>3</sup>**

**Abstract:**

Abstract, which is limited to 200 words in total, must include the following items.

- Purpose / Context
- Methodology / Approach
- Results
- Key Findings / Implications
- Originality

**Keywords: (Within 5 words)**

- <sup>1</sup>. Position of the first author.
- <sup>2</sup>. Position of the second author.
- <sup>3</sup>. Position of the third author.

**Email:** sca19@maas.edu.mm