

APEC Mentoring Center for the Gifted in Science (AMGS)

Workshop on Innovation and Cooperation of
APEC Centers and Long-term Mechanisms
Session 2_Nov 4, 2019



Our Goal

To build and operate **Mentor-Mentee network** between scientist, science education professionals and student researchers of APEC Economies

by providing continuous opportunities for joint research activities



1. 18-19 APEC Cross Mentoring Research Activity

Duration

September 2018 ~ May 2019 (for 7 months)

Application

1st stage – 142 mentees 6 economies
2nd stage – 86 mentees 6 economies

Research Mentor

1st stage
- 10 mentors 6 economies
- Biology, Physics, Chemistry, Engineering

2nd stage
- 10 mentors 5 economies
- Aeronautical Engineering, Biochemistry, Chemical Engineering, Electronic Engineering, Material Engineering, Environmental Engineering

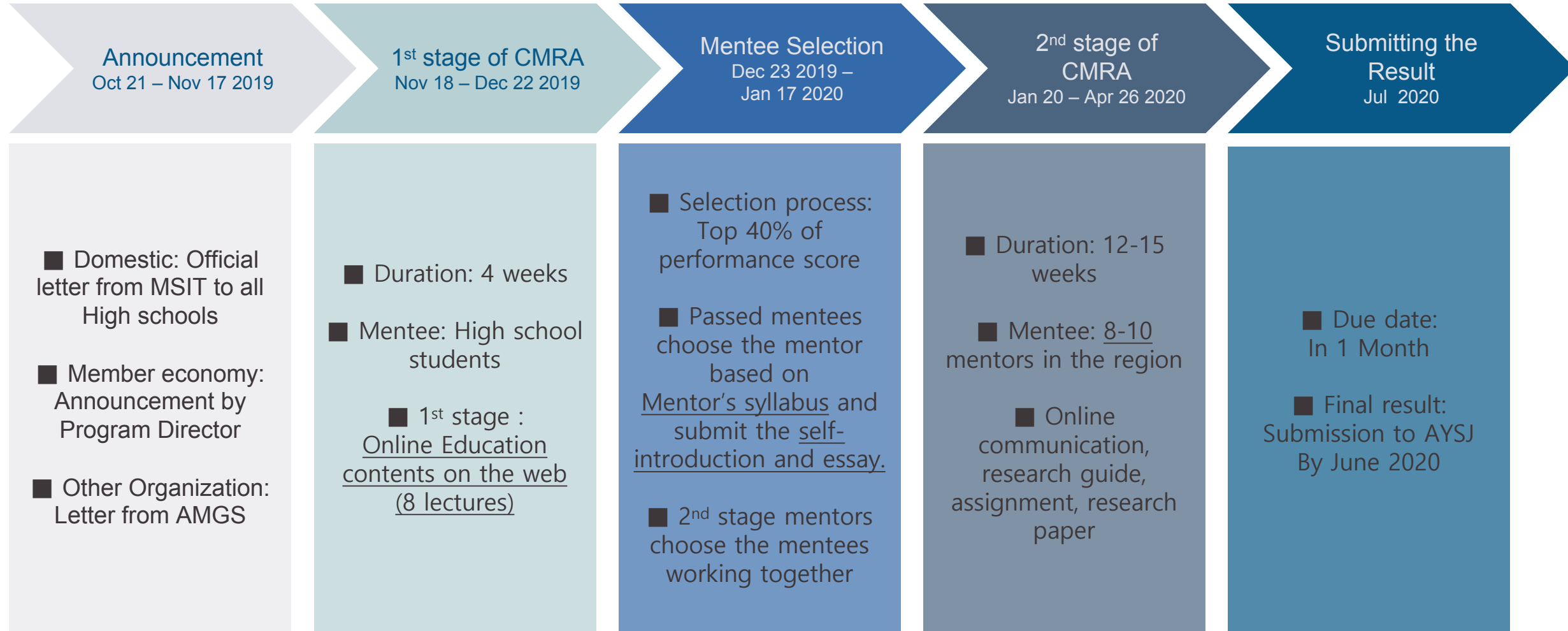
Accepting application (AMGS webpage & Email)	Sep 7 ~ Oct 14 2018
↓	
1 st stage (6 weeks) – Basic course	Oct 21 ~ Dec 28 2018
↓	
Selecting mentees for 2 nd stage mentoring & Arranging Mentor-Mentee team	Dec 29 2018 ~ Jan 17 2019
↓	
2nd stage (12-15 weeks) (12~15 weeks)	Jan 18 ~ Apr 17 2019
↓	
Submitting the research result to APEC Youth Scientist Journal	Jul 2019

AMGS

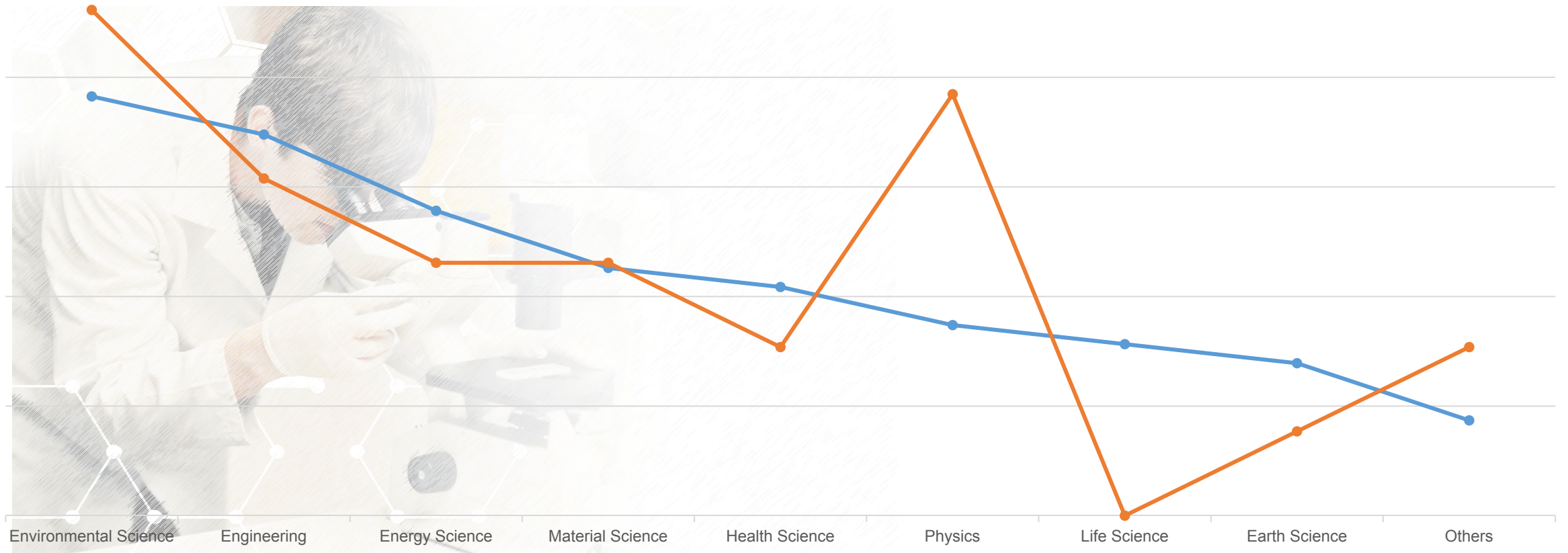
2nd stage mentor and the Research topic

Name	Economy	Research Topic	Mentee
Dr. Jimmy K.Y. Wong	Hongkong, China	Invention of machines or tools in assisting the daily lives of physically disabled or elderly people	5
★ Prof. Yeong Rae HA	Korea	Vitamin D and Health Influence	5
Prof. Ashwani K. Gupta	USA	Renewable Green Energy	5
★ Prof. Geun-hie, RIM	Korea	Environmental Friendly Vehicles	5
★ Dr. Michelle M. Barbon	The Philippines	Application of Bioinformatics with Morphological and Molecular Area	4
Prof. Yun Hin Taufiq-Yap	Malaysia	Biofuels, Biomass & Wastes	3
Prof. Somrat Kerdsuwan	Thailand	Waste to Energy in Asia Mega City	4
Prof. Hoang Anh	Vietnam	Solar PV systems: design and assessment	5
★ Prof. Dae-Hwan PARK	Korea	Nanochemistry and Nanomaterials for Biomedical Science	7
★ Dr. Hakjin LEE	Korea	Fundamental Aerodynamics and Wind Turbine System	6

Overall Schedule of APEC CMRA 19-20



Expanding Research Fields



— What mentees prefer — What we researched

2. 7th APEC Conference for Future Scientist



Date/ Venue: April or May 2020 (4 nights 5 days)/ Semarang, Indonesia

Participants: Mentors and Mentees in 17-18, 18-19 programs and recommended student researcher teams and the mentors

	Mentee	Mentor
Day 1	- Special Lecture/ Opening - Mentee Conference (Poster presentation)	
Day 2	- Mentor symposium - Team project	-Mentor Conference
Day 3	-Lecture & Lab (Maker's room) - Team project	-Workshop on the gifted
Day 4	-Presentation Best-Poster -Communication with Alumni -Team project	
Day 5	- Team Project Presentation -Closing	

Purpose & Target participants

AMGS

3 Steps of Research Process

1st Step -
CMRA
(Online)

Check-out

2nd Step -
APEC Conference
For Future Scientist
(Offline)

Check-out

3rd Step -
Journal
Publication

Target participants

Mentors and Mentees
Of CMRA

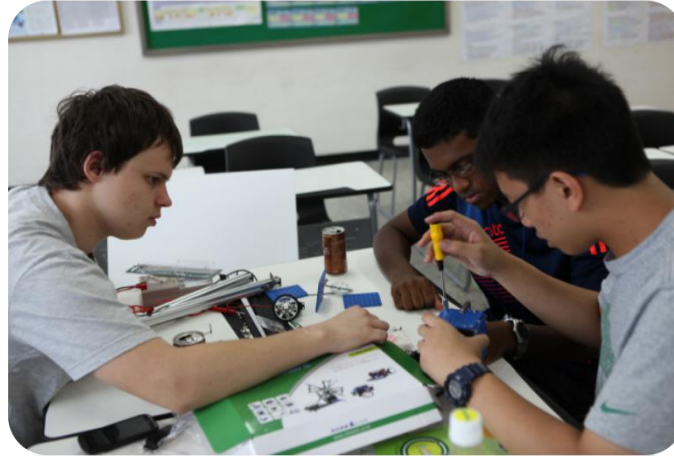
Teen researchers in APEC
with recommendation

Scientists, researchers,
and educators

Previous Event



Poster Presentation



Team Project



Team Project



Team Project Presentation



Mentor Workshop

Cooperation Idea for CMRA

For more mentors in various research topics

Broaden the pool of Expert collaboration

Federation
of Science
&
Technology
Societies

Scientists
and
Engineers
Without
Borders

APEC
PPSTI
Centers

APEC PPSTI
Long-term
mechanisms

Cooperation Idea for ACFS

Professionals

From APEC
Centers &
projects

Collaboration

With other
experts

7th APEC Conference for Future Scientist

Topic Idea

With APEC
related-issue

Network

For Future
Scientists

Professionals
From
APEC-PPSTI
Centers &
projects

Cooperation Idea for AJFS

Joint Research with Issues in APEC

Theme of the Year
Related to APEC/ Global Issue + Teacher-Student team
1~2 team of each economies

Mentees involved more
to the global issue

Improving the outcome
& more collaboration

Thank you

감사합니다

