

# The 8<sup>th</sup> Online-AMGS Conference for Teen Researcher

- Date : June 2021
  - 1st, 2<sup>nd</sup> and 3<sup>rd</sup> weekend (5 days in 3 weeks)
- Format : Online communication, real-time  
(AMGS webpage, Youtube, Zoom, Google Classroom, etc)
- Purpose
  - : Providing opportunities to share research results of APEC Cross Mentoring Research Activity(CMRA) to the public in APEC
  - : Supporting research activities that will be produced as a result of academic exchanges with experts and peer group review/discussions
  - : Contributing research results with AMGS to joint research projects of young students in STEM of member economies
  - : Producing online contents to promote performance of basic research that emphasizes self-directed learning
  - : Promotional activities of the APEC Mentoring Center for Gifted in Science at home and abroad

- Target : Teens in APEC who have interests in scientific research

- Process & Schedule :



Week 1		Week 2		Week 3	
Opening	Orientation	Lecture/ Project lv.2	Lecture/ Project lv.2	Lecture/ Project lv.3	Result Presentation
Keynote speech	Ice-breaking session for each team				Closing
CMRA seminar <i>*Only for CMRA mentees</i>					Friendship Sharing

- Registration page open in May 3 in AMGS Website. ([www.amgs.or.kr](http://www.amgs.or.kr))

● Benefit:

- Certificate & Award
- a chance to receive a review for any field
- a chance to meet an expert
- Communication chance with peer group

● Details in programs

(1) AMGS Conference for Teen Researcher

- ▷ Objective: Share the research progress/result of students participating in APEC Cross Mentoring Research Activity 20-21 to peer group and experts in order to improve their quality through feedback
- ▷ Process: Submit research results/progress to PPT and present them in real time seminar
  - 7 minutes presentation, 3 minutes Q&A
  - Request evaluation to mentors and AMGS expert group
  - Students who have not participated CMRA encourage to attend the seminar for peer review.

(2) Main program: APEC Online Conference for Teen Scientists

- ▷ Objective : To conduct a joint research project on the mentor's topic as a 'team project' and submit results
- ▷ Course

1) Team arrangement for joint research projects

- : Open research topics of mentoring in advance and receiving application from mentees
- : Organizing a small group team (1 team-up to 5 members/ max. 5 teams) for each mentor
- : Conducting tasks through lectures, group discussions, and research and submitting them
- : 5 groups by mentor (maximum 25/ expected)

2) Orientation by small group

: Overall orientation by AMGS and mentor team's orientation by the mentor on Day 2

### 3) Conduct lectures and assignments

: For lectures, uploading them on online education platforms such as AMGS homepage, Google Classroom, and etc.

: Presenting PPT and guiding group discussions in real time through Zoom

: Lectures shall be conducted for all students, but discussions shall be conducted in small groups.

: Real-time discussion for group project to complete and submit the task as a final result

: Final result presents real-time (Zoom)

: The submitted result-PPT will be published as annex in the APEC Journal of Youth Scientist

### (3) Keynote lecture

#### ▷ Purpose

: To help young students in APEC choose their careers by introducing researchers in various fields of science and technology innovation and their research activities.

: Utilize AMGS's expert pool and expand new experts

▷ Lecturer: Prof. Ashwani K. Gupta (University of Maryland)

▷ Type: Live through Youtube or Zoom

### (4) Opening/ Closing and Culture sharing

#### ▷ Purpose

: Online educational exchange between teens and experts who participated in the conference and announce the official beginning and end of the event before and after the online academic conference

▷ Format: Real-time progress through Zoom

: Receive 2-3 cultural exchange videos per country and watch them in real time

## ● Expected Effects

: Strengthening the exchange of mentors and mentees participating in APEC CMRA 20-21

: Securing AMGS performance by expanding participation of teens and mentors from the member countries

: Online publishing of result to expands sharing of AMGS performance in public

▷ Research process of each program

Week		Program	Detail
Week 1	Day 1	Opening and CMRA Seminar (2 hours)	<b>Seminar for APEC CMRA</b> <ul style="list-style-type: none"> <li>• Real-time Zoom (TBI)</li> <li>• Review from experts and peer group (5 min)</li> <li>• Presenters: APEC CMRA mentees</li> <li>• Audience: Registered students and experts</li> </ul> <p>▷ Objective: Share the research progress/result of students participating in APEC Cross Mentoring Research Activity 20–21 to peer group and experts in order to improve their quality through feedback</p> <p>▷ Process: Submit research results/progress to PPT and present them in real time seminar</p> <ul style="list-style-type: none"> <li>– 7 minutes presentation, 3 minutes Q&amp;A</li> <li>– Request evaluation to mentors and AMGS expert group</li> <li>– Students are encouraged to attend the seminar for peer review</li> </ul>
		Overall orientation (15 min)	<b>Overall orientation for ACTS</b> <ul style="list-style-type: none"> <li>• Real-time: Zoom</li> <li>• PPT by AMGS <ul style="list-style-type: none"> <li>– Informing schedule and introducing programs</li> </ul> </li> <li>• for all participants</li> </ul>
	Day 2	Team orientation (1 hour)	<b>Orientation of each mentor team</b> <ul style="list-style-type: none"> <li>• Real-time: Zoom</li> <li>• Introducing research field by mentors</li> <li>• Group meeting <ul style="list-style-type: none"> <li>– Setting team name/leader/project on given topics</li> </ul> </li> </ul>
Week 2	Day 3	Lecture and discussion I (1 hour)	<b>Lecture Part. 1 on the research topic</b> <ul style="list-style-type: none"> <li>• Upload lectures on Google Classroom <ul style="list-style-type: none"> <li>– Check the lecture in advance and participate in the real-time discussion.</li> </ul> </li> </ul>

Week 3			<ul style="list-style-type: none"> <li>– Team Task assignment and verification by team</li> <li>– Respond to tasks and Q&amp;A in Google Classroom</li> <li>– 2 staffs for each team (scheduled, class assistance and mentee response)</li> </ul>
		Real-time Discussion (2 hours)	<b>Real-time Discussion by Groups for Team Project</b> <ul style="list-style-type: none"> <li>– To check the direction and progress of each team through real-time discussion through zoom.</li> </ul>
	Day 4	Lecture and discussion II (1 hour)	<b>Lecture Part. 2 on the research topic</b> <ul style="list-style-type: none"> <li>• Same process on Day 3</li> </ul>
		Real-time Discussion (2 hours)	<b>Real-time Discussion by Groups for Team Project</b> <ul style="list-style-type: none"> <li>• Same process on Day 3</li> </ul>
	Day 5	Lecture and discussion III (1 hour)	<b>Lecture Part. 3 on the research topic</b> <ul style="list-style-type: none"> <li>• Same process on Day 3</li> </ul>
		Real-time Discussion (2 hours)	<b>Real-time Discussion by Groups for Team Project</b> <ul style="list-style-type: none"> <li>• Same process on Day 3</li> </ul>
Week 3	Day 6	Presentation on Group project (3 hours)	<b>Presentation on Group project</b> <ul style="list-style-type: none"> <li>• Presentation by groups <ul style="list-style-type: none"> <li>– AMGS host/ Mentor review</li> <li>– Experts/ peer group review/ Q&amp;A</li> </ul> </li> </ul>
		Closing (30 min)	<b>Closing</b> <ul style="list-style-type: none"> <li>• Closing speech</li> <li>• Photos and videos</li> </ul>
		Friendship Sharing (2 hours)	<b>Culture sharing</b>

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