NAEK The National Academy of Engineering of Korea

CAETS 2020 Symposium

"Engineering a Better World: Smart Society"

❑ Date : June 22, 2020(Mon) ~ June 25, 2020(Thurs)

❑ Venue : Four Seasons Hotel, Seoul

❑ Theme : Engineering a Better World: Smart Society

❑ Audience : 400 people est.

(CEOs, CTOs, Tech Startups Leaders, Academicians, Engineers from 30 countries)

❑ Program(tentative)

Date	Time	Program
June 22 (Mon)	09:00-12:00	CAETS Council Meeting CATES Board Meeting
	14:00-18:00	Working Group Discussion
June 23 (Tue)	10:00-11:40	**Session1.** **Hyper-connected Life** **(IoT, Big Data, Telecommunication, Transport)**
	11:40-13:30	Lunch
	13:30-15:10	**Session 2.** **Smart Energy Network in Urban Environment** **(Smart Grid, Distributed Energy Resources)**
	15:10-15:30	Coffee Break
	15:30-17:10	**Session 3.** **Climate Change Issues &** **Challenges in Urban Environment** **(Impacts of Climate Change on Urban Areas,** **Sustainable Urban Futures)**
	18:00-20:00	Banquet
June 24 (Wed)	09:00-10:40	**Session 4.** **Education for Smart Society** **(Education for the 4th Industrial Revolution)**
	12:00-13:00	Lunch
June 25 (Thurs)	09:00-15:00	Technical & Cultural Visit

❑ **Background**

The world is becoming closer and closer through the cyberspace. Technology is becoming more and more complicated, and it is blurring industry boundaries. The combination of artificial intelligence and the cloud is creating super intelligence beyond human intelligence.

Smarter societies are already emerging all around us, and we must be prepared and wise in facing the infinite opportunities and challenges of these changes. All members of our society should join in this process together. Also, cooperation of various sectors is very important to build smarter societies that everyone can benefit.

We all must take advantage of the new technologies and at the same time; prevent the crises and side effects of using them. In order to do that, we need to prepare for some solutions of the serious social and ethical challenges that technology will cause.

On Symposium, we'll figure out together what current issues and challenges we will face in developing sustainable societies. While we think about the issues and questions, we will put our heads together to solve the problems reasonably. It will be a great opportunity for all the participants to share their insights on the various given agendas.

Session 1 - Hyperconnected Life
Today, we live in a shrinking world thanks to advanced Information & Communication Technologies, 5G mobile communications, and advanced transportations, etc. What are the challenges of an increasingly interdependent world?
- IoT(Internet of Things), Big Data, Telecommunication, etc.

Session 2 - Smart Energy Network in Urban Environment
To devise innovative and sustainable energy solutions and prevent energy losses, developing advanced technologies, such as storage and information technologies, is necessary.
- Smart Grid, DER(Distributed Energy Resources), etc.

Session 3 - Climate Change Issues & Challenges in Urban Environment
To create sustainable societies and stop climate crises, we need to develop new technologies. Also, we have to think about what efforts should be made.
- Impacts of Climate Change on Urban Areas, Sustainable Urban Futures, etc.

Session 4 - Education for Smart Society
We need new, different ways and systems to educate people to understand the development of new technologies such as AI, Big Data, and IT and their capabilities.
- Education Transformation in the Age of AI, Cyber Ethics, Education for the 4th Industrial Revolution, etc.