

Seeking for Safety Measures for Future Air Navigation by using ICAO and satellites

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Hosting the 31st International Seminar on Air Navigation Safety Facility –

The Ministry of Land, Infrastructure and Transport (MOLIT, Minister WON Hee-ryong) announced that 'The 31st International Seminar on* Air Navigation Safety Facilities' will be held on December 7 under the theme of 'Strategies for future development of air navigation safety system including satellites' in the Auditorium of National Aviation Museum of Korea.



(Roles of Air Navigation Safety Facilities) Essential air navigation facilities that provide information such as distance, azimuth, landing angle, and airport location to ensure that aircraft safely flies to its destination

The 'International Seminar on Air Aviation Safety Facility', which marks its 31st anniversary this year, has played an important role in the development of air navigation aviation safety as a forum for communication to share the latest policies and technological trends in the field of air navigation between the government, the industry, and academia/research institutes.

In this seminar, ICAO* Asia-Pacific Office and international experts from EASA** are invited to present the directions of future air navigation system development and the application cases of satellite navigation technology in Europe.

* International Civil Aviation Organization

** European Union Aviation Safety Agency

Experts from the industry and academia/research institutes in Korea will introduce a wide range of ongoing projects, such as navigation technology for control and operation of new air transportation means such as urban air mobility (UAM), unmanned aerial vehicles, and drones, and 3D integrated control system, as well as the current status of domestic satellite development and space project development.

In addition, in-depth discussions on technology development and commercialization strategies, additional technology innovation tasks, and ways to create added value through technology development will be held through expert discussions.

"I hope this event will be a meaningful occasion to share the trend of technology development using satellites and seek ways to apply them to the domestic aviation industry, HA Dong-soo, Director of the Aviation Policy Office of the Ministry of Land, Infrastructure and Transport said in his opening remarks.

"The Ministry of Land, Infrastructure and Transport will prepare for the provision of Korea Augmentation Satellite System(KASS) in 2023, and strive to expand services in the location industry."

Attach. 31st International Seminar on Air Navigation Safety Facility

Seminar Overview (online + offline hybrid)

(Topic) Strategies for future development of air navigation safety systems such as satellites

(Date/Venue) '22.12. 7.(Wed), 13:20~17:20 / National Aviation Museum of Korea Auditorium

(Participants) About 400 people (100 on-site, 300 online) from the Ministry of Land, Infrastructure and Transport (opening speech by the director of the Aviation Policy Office (video)), foreign organizations such as ICAO, EASA, and DFS, both airport corporations, officials from private sector and research institutes

(Presentation Topic)

* The above schedule may be partially changed depending on circumstances.

Session 1: Global next-generation air navigation safety system conversion strategies				
0	ICAO Future Navigation System Conversion Strategy	International Civil Aviation Organization (ICAO)		
2	DFS performance-based navigation system development trends and related issues	DFS (German Airports Corporation)		
3	EGNOS (European Geostationary Navigation Overlay Service)	EASA (European Aviation Safety Agency)		

Session 2: Next-generation air navigation safety system services such as satellites

0	Korea Augmentation Satellite System (KASS) provision plans	Ministry of Land, Infrastructure and Transport (Aviation Facility Division)
Ø	Urban Air Mobility (UAM) navigation system utilization plans	Ministry of Land, Infrastructure and Transport (City Aviation Policy Team)

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Session 3.1	Development and	research trends	of domestic	navigational	safety system
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0	Defense space technology development status (radar, communication, etc.)	Hanwha Systems
Ø	Status of development of space project such as domestic satellite development	Korea Aerospace Industries, Ltd. (KAI)
3	Incheon International Airport air traffic 3D integrated control system development	Incheon Airport Corporation
4	SWIM-based aircraft landing monitoring service development	Korea Airports Corporation
(5)	Development status of UAM alternative navigation facility	Korea Airports Corporation