



Kwang Bum Lee

Senior Advisor

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Mr. Kwang-Bum Lee joined Shin & Kim after his 31 years of service with the Korea Automobile Testing & Research Institute (KATRI) under the Korean Transportation Safety Authority. As a leading expert in the field of vehicle safety, homologation, defect corrections, and relevant laws which apply to the same, Mr. Kwang-Bum Lee served in various senior positions at KATRI, including head of the defect-investigation team, homologation-inspection team, and research-planning team, before retiring from public service as vice president of KATRI in August 2020.

During his early days with KATRI, Mr. Lee managed establishing various testing buildings and equipment for safety evaluations and systematizing the Korea Motor Vehicle Safety Standards and detailed regulations under the Motor Vehicle Management Act. With the development of KATRI as the authority overseeing vehicle safety, homologation, and defect correction, Mr. Lee comprehensively engaged in and supervised all matters covered by KATRI, including the enactment and amendment of vehicle related laws, homologation, recalls, and defect investigation. In addition, from 2007, Mr. Lee began to oversee all aspects of hybrid and electric vehicles, and hydrogen fuel-cell vehicles, with his involvement in the research and development on safety evaluation for hydrogen fuel-cell vehicles. Since then, he has become an expert in this field with his experience at home and abroad on establishing safety standards and detailed regulations on the safety of high-voltage system and driving batteries, risks of leakage of high-pressure hydrogen, and activities as a Global Technical Regulation (GTR) expert.

Particularly after 2012, Mr. Lee he began to head defect investigation and homologation matters within KATRI and built up the systems necessary for active and effective defect investigations. He also contributed to the improvement of the homologation process for small-sized vehicle manufacturers when he supervised the examination of technologies and safety inspections for such manufacturers. In 2018, Mr. Lee concurrently served as head of KATRI's defect investigation team while serving as head of its research-planning team, and supervised all investigation and recall processes relating to defects.

Since 2019, Mr. Lee contributed to the continuous development of KATRI by establishing a mid-to long-term development plan as head of the research-planning team and concurrently as vice president of the KATRI. He also served serving as chairman of the KATRI Development Committee and supervised the overall business and operation of the KATRI.

Professional Career

2024-Present	Member, Korea Academy for Automotive Engineering
2022-Present	Advisory Member, Integrated Future Forum for Automated Vehicles, Ministry of Land, Infrastructure and Transport
2020.9-Present	Senior Advisor, Shin & Kim LLC
2021.1-Present	Advisory Member, Korea Auto-Vehicle Safety Association
2016.3-2020	Vice President, Korean Auto-vehicle Safety Association
2020.2-2020.8	Vice President, Korea Automobile Testing & Research Institute
2018	Head, Research Development/Research Planning Team, Korea Automobile Testing & Research Institute
2016	Head, Homologation Inspection Team, Korea Automobile Testing & Research Institute
2016.6	Member, Vehicle Consumer Protection Research Committee, Korea Automobile Manufacturers Association
2014	Head, Defect Investigation Team, Korea Automobile Testing & Research Institute
2012	Head, Investigation Verification Team, Korea Automobile Testing & Research Institute
2010.5-2013.12	Examiner for Patent Technology Award, Korean Intellectual Property Office
2008.3-2011.2	National Technology Qualification Policy Deliberation Committee Transportation Maintenance Commissioner
2009.7	Clean Diesel Vehicle Part Industry Fostering-Plan Commissioner
2008.7	Future Vehicle Expert Advisor, Korean Agency for Technology and Standards
2008.2	Gas Vehicle Expert Advisor, Korean Agency for Technology and Standards
2007	Future Car Research Team, Korea Automobile Testing & Research Institute
1989.8	Korea Automobile Testing & Research Institute

Key Experience

- Advised on recalls and certifications for Company A, a global automotive company
- Advised on recalls and certifications for Company B, a global automotive company
- Advised on certifications for Company C, a global auto parts company
- Advised on recalls for Company D, an automotive battery company
- Advised on legal matters for Company E, a car rental company
- Advised on litigation for damages for Company F, a global automotive company

Education

2020.8	Kyungil University Department of Mechanical Engineering (D.E.)
1992.8	Sungkyunkwan University Department of Mechanical Engineering (M.E.)
1986.2	Sungkyunkwan University Department of Mechanical Engineering (B.E.)

Languages

Korean, English

Professional Activities

- *Regarding the safety standards for electric vehicles, monthly EV Magazine, Vol. 08, February 2021*
- A Study of Real Driving Emission Analyses on Exhaust Gas and Fuel Economy using Diesel Vehicles (Doctoral Thesis, 2020)
- An Analysis of Laboratory and Real Driving Test using Diesel Vehicles (KASA, 2020)
- Statistical Analysis of the Impact of Vehicle Running-in Distance on Mechanical Resistance (International Journal of Automotive Technology, 2020)
- Korean Car Industry Technologies and Safety Policies (*Seongjinmunhwa*, 2018)
- A Study on Toughened Glass Used for Vehicles and Its Testing Methods (ESV 24, 2015)
- Hydrogen Fuel Cell Vehicle Safety Evaluation Technology Development (Korean Hydrogen and New Energy Society, 2014)
- A CFD simulation of hydrogen dispersion for the hydrogen leakage from a fuel cell vehicle in an underground parking garage (HYDROGEN ENERGY, 2013)
- Research on Numerical Analysis of Hydrogen Behavior on Hydrogen Leakage of Hydrogen Fuel Cell Vehicle in Long and Large Tunnel (Korean Hydrogen and New Energy Society, 2012)
- Assessment of Safety for Hydrogen Fuel Cell Vehicles (ICHS, 2011)
- A Study of Fuel System Integrity and Electric Safety of HFCV (ESV 22, 2011)
- Consideration of Global Technical Regulations(GTR) on Hydrogen Fuel Cell Vehicle (Korean Hydrogen and New Energy Society, 2011)
- Research on Development of Evaluation Technology on Fuel Consumption Rate of Hydrogen Fuel Cell Vehicle (Korean Hydrogen and New Energy Society, 2010)
- Research on Safety-Standard Compliance Test of Output Characteristics of Driving Motor (Korean Society of

Automotive Engineers, 2010)

Awards

2020.5	President Commendation
2017.5	Minister of Land, Infrastructure and Transport Commendation

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