



KALSE

Korea Association of Laboratory Safety&Environment

Past and the future of LSM in Korea

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Two pillars in LSM of Korea

	Ministry of Education (MOE)	Ministry of Science (MSIP)
Office in charge	Education Facility Division	Research Environment Safety Team
Legal basis / Policy tools	<ul style="list-style-type: none"> ▪ "Public disclosure of information" ▪ Safety management performance assessment 	"Act on the establishment of safe laboratory environment (i.e., laboratory safety act)" enforced since 2006
Application scope	<ul style="list-style-type: none"> ▪ Universities & colleges ▪ All majors in a campus 	<ul style="list-style-type: none"> ▪ Universities/colleges & (Governmental, Public, or Industrial) Research institutes ▪ Fields of Science & Technology only
Executing organizations	Education Facility Disaster Association (Edufa)	<ul style="list-style-type: none"> ▪ National Research Safety Headquarters ▪ Support center for Metropolitan Research Safety

Laboratory Safety Act

- **Article 1 (Purpose)** The purpose of this Act is to efficiently manage research resources and thereby to contribute to the revitalization of scientific and technical research and development activities by **ensuring the safety of laboratories in the fields of science and technology** established in a university, research institute, etc. and **ensuring proper compensation for damage** caused by a laboratory accident.

LSM tools in the Lab Safety Act

- ✓ To establish organization rules on lab safety management
- ✓ To designate personnel in charge of managing lab safety in the organization (safety manager)
- ✓ To have the **principal investigator (professor)** of each lab taking full responsibilities in LS actions within his/her own lab
- ✓ To conduct "daily safety check", "annual safety inspection" & "thorough inspection" including exposure assessment of hazardous factors
- ✓ To subscribe to insurance against laboratory accidents
- ✓ Reporting lab accidents to the MISP
- ✓ Providing safety training & medical examination for specific hazards
- ✓ "Certification of Good Laboratory in Safety Management"

MOE's initiatives

- Under the Master plan for “creating a safer lab environment in higher education”
- Actions/Tools
 - Guideline for designing a safer lab
 - Public disclosure of information
 - Safety management performance assessment

History of KALSE

- 1998.8 established
- 2004.2 registered as a non-profit incorporated association
- President
 1. Hwa-young Lee (Chemical Eng., SNU)
 2. Chung-jeon Lee (Environ. Eng., Cheonnam Nat'l Univ.)
 3. Chul-hee Lee (Environ. Eng., Youngnam Univ.)
 4. Chung-hak Lee (Chemical Eng., SNU)
 5. Tae-joo Park (Applied Chemistry, Busan Nat'l Univ.)
 6. Ikmo Lee (Chemistry, Inha Univ.)
 7. Han-soo Kim (Chem. Eng., GWNNU)
 8. Young man Kim (Chemistry, KIST)

Activities of KALSE

- **Publication**

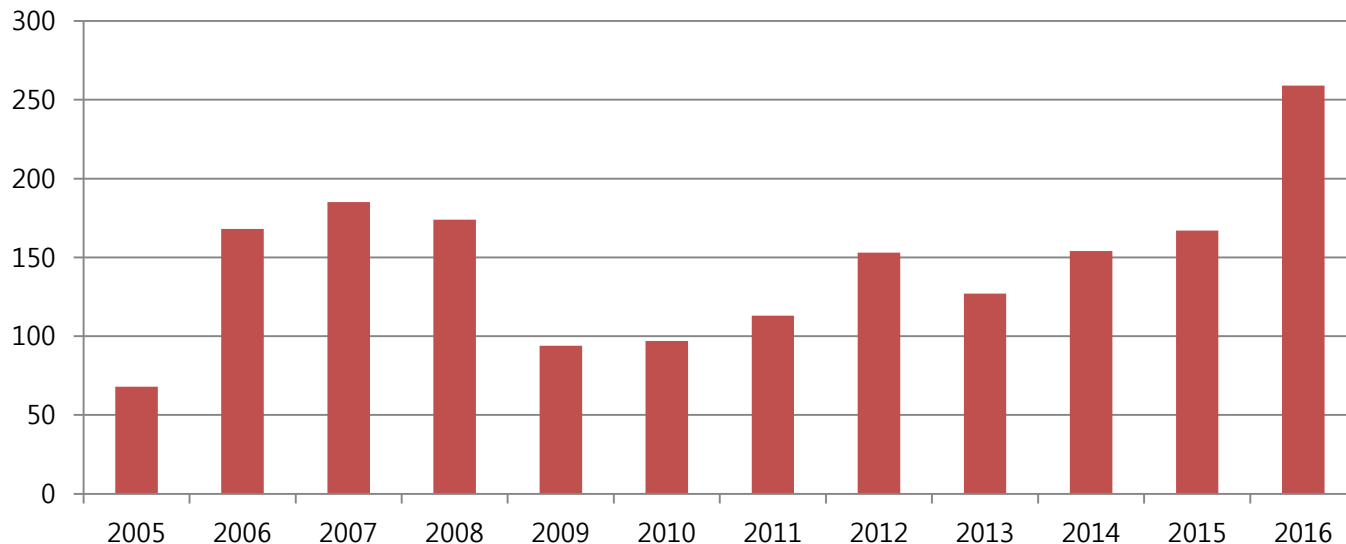
- The Journal of Laboratory & Safety
- Since 2007
- Twice a year
- Poster #12 " Introduction of the Journal of Laboratory & Safety by KALSE", presented by SW Ba다

- **On-site training** since 2006

- In 2015, +10,250 researchers and students from 60 institutions were benefited through the KALSE training campaign

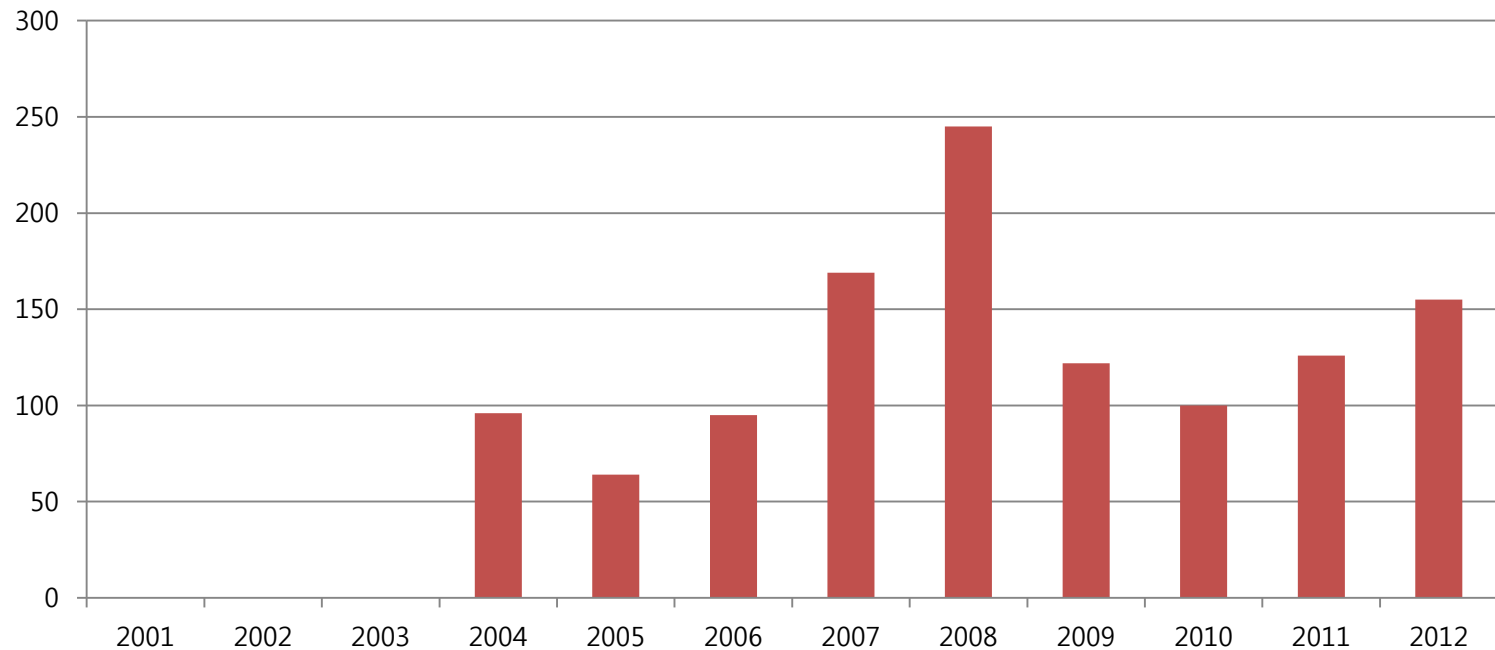
Activities of KALSE

- Workshops
 - Annual workshop for lab safety managers
 - No. of participants since 2005



Activities of KALSE

- Annual Symposium
 - No. of participants since 2001



Activities of KALSE

- International networking since 2013
 - **International Conference on Laboratory Safety in Science & Education** held in Incheon National University in Korea :
 - Participants : Korean 100, Japan 26, & some others
 - **ACSEL 2014** : 23 Koreans
 - **ACSEL 2015** : 29 Koreans

Challenges

- **Find the “Niche” of KALSE**
 - a place, employment, status, or activity for which a person or thing is best fitted
 - Multiplayer as the pioneer in the past, and now what
 - Diverse groups/actors in LSM area
 - Executing roles under MOE or MISP
 - Regional meetings of safety managers in academia

Opportunities

- Raised public awareness on lab safety
 - Researchers exposed to safety trainings
 - Governmental supports
 - Media coverages
- Various needs for developing policies & tools
 - People to be protected : women, foreigners, the younger, temporary lab workers, other than S&T students
 - Risk prediction for emerging research areas, incl. nanotechnology, biosciences, etc.
 - “harmonization”

Thank you!!

NEED YOUR INPUTS