



Outline of content

- Shocking Sewol Ferry Disaster in 2014
- Booming Safety Education in S. Korea?: Critical reflections on school-focused Safety Education
- Geography really matters in disaster prevention education: Beyond superficial and text-based approach
- Exploring powerful geography education and fieldwork in UK, China, Norway
- Expanding horizon of safety education globally



Sewol ferry disaster...

- The sinking of the 'Sewol' ferry, occurred on 16 April 2014, when it was en route from Incheon towards Jeju in S. Korea.
- Out of 476 passengers and crew, 304 passed away in the disaster. Shockingly, around 250 students from Danwon High School in Ansan City, Gyeonggi Province died on their educational field trips.

- All South Koreans could do was watch, heartbroken, the desperate videos from students sending last messages to their families as cold waves filled the ship.
- "Mom, Dad, I love you," one boy said in a video recovered from a phone.
- The promises came too late for the overloaded South Korean ferry, too late for the 250 students who drowned when it capsized on a school trip to a resort island.









Social issues... political reactions

- The negligence of the ferry operator and the regulators who oversaw its operations as well as the actions of the irresponsible crews, especially the selfish captain, were severely criticized by the Korean public.
- "I will make sure that all this sacrifice was not for nothing by removing the layer after layer of corruption that has accumulated over the years, and by making South Korea a safe country," vowed the president at the time, MS Park Geun-hye.



- But as a stunned nation took stock after the Sewol ferry disaster, people hoped it might not be too late to make sure this could never happen again.
- Crucial new measures to prevent ships from being overloaded are often sidestepped. The coast guard has uncovered cheating at almost every step of the cargo-weighing process.





How to deal with safety education in the revised National Curriculum and textbooks of elementary school

- After the Sewol Ferry disaster, the National Curriculum in S. Korea was revised to introduce new subject 'safe life' and reflect content related to safety education in diverse subjects.
- Let's analyze what content elements are related to safety education in elementary school textbooks and what level they are dealing with.



A Study on the Current Situation of Safety Education in Elementary Schools and Improvement of Teaching Safety in Social Studies Education

- Social Studies should focus on teaching recognition of safety rights so that students can realize their rights and know what to do when their safety rights are infringed, thereby dealing with the situation successfully.
- Teaching the recognition of safety rights is a balanced composition of safety knowledge, safety consciousness and the practice of solutions to safety problems.

- problems arising from the field application of "Seven Standards for School Safety Education" a representative policy of schools after the Sewol ferry sinking accident. The basic law function of the school(School Safety Acts) needed to be strengthened to serve as the basic laws for school safety.
- Based on the students' perceptions, the safety education of the school did not sufficiently meet the demands of students since the necessity was relatively higher than the satisfaction level of safety education.

An Exploratory Study on School Safety Education after the Ferry Sewol Disaster - Focused on the Seven Standards for School Safety Education -

'The Seven Standards of School Safety Education' consists of

- 1. Life safety,
- 2. Traffic safety,
- 3. violence and personal safety,
- 4. drug and cyber addiction,
- 5. disaster safety
- 6. occupational safety
- 7. first aid

대본류 중분투 소분류 - 시설 및 제품이용 안전 시설안전, 제품안전, 실험심습안전 생활안전 교육 선체물등 안전 제목 및 여기 활동 안전 - 유괴 - 미아라고 예반 유괴 - 미아라고 예반	
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7개 명의 25개 중분류 56개 소분류	

Main Category (7)	Middle category (25)	Subclass (52)
Life safety	Safety of use of facilities and products	Facility safety
		Product safety
		Laboratory practice safety
	Physical activity safety	Physical and recreational safety
	Prevention of kidrapping and lost children	Prevention of kidnapping and lost children
	Pedestrian safety	Identifying traffic signs
		How to cross the street
		Podestrian safety
	Bicycle safety	Safe trike ride
		Safe bike care
Traffic safety	Motorcycle safety	Causes and prevention of motorcycle accidents
		Caution while driving a motorcycle
	Cur safety	Cause of car accident
		How to prevent our accidents
	Public transportation safety	Public transportation safety, public transportation safety rules
	School violence	School violence
		Verbal/cyber violence
		Physical violence
Violence and		Bullying
personal safety	Sexual violence	Sexual violence prevention and countermeasures, prostitution prevention
sandty	Child abuse	Child abuse prevention and countermeasures
	Suicide	Suicide prevention and coping methods
	Domestic violence	How to prevent and cope with domestic violence
	Drug addiction	Narcotic harm and prevention
		Smoking harm and prevention
Drug • Cyber addiction		Drinking harm and prevention
		High caffeine food harm and prevention
	Cyber addiction	Internet game addiction
		smartphone addiction
		Fine

	Drug addiction	Narcotic harm and prevention
		Smoking hum and prevention
Drug - Cyber		Drinking harm and prevention
addiction		High caffeine food harm and prevention
	Cyber addiction	Internet game addiction
		smurtphone addiction
	Fire	Fire
		Safety rules in case of fire
		Fire estinguisher use and measures
Disaster safety	Social disaster	Causes of explosion and collapse and countermeasures
		Countermeasures in case of various terrorist accidents
	Natural disaster	Countermeasures for floods and typhoons
		Earthquike, heavy snow, countermeasures in case of cold wave or lightning strike
	Occupational safety awareness	The importance of occupational safety awareness
		Occupational safety culture
	Understanding and prevention of industrial accidents	Meaning and occurrence of industrial accidents
Occupational		Prevention and countermeasures against industrial accidents
safety	Occupational disease	Meaning and occurrence of occupational diseases
		Prevention and countermeasures for occupational diseases
	Prevention and management of occupational safety	Industrial accident management
		Organized
		Wear protective equipment
	Understanding and importance of first aid	Purpose and general principles of first aid treatment
		What to do in an emergency
		Precautions and preparation before first aid
First aid	CPR	CPR
		Use of an automatic defibrillator
	First aid by situation	Airway obstruction
		Hemostasis and wound treatment, sprains, fractures, burns, etc.

Fieldwork is essential...

- The manual-based safety education and simple swimming practices in the in-door swimming pool are not enough for survival.
 No matter how well you swim, you are getting closer to death if you are heading toward the open sea, not land.
- Improving safety education with help of geography educators in the real field can be essential to overcome the limits of superficial practices in the classroom.

A Study on the Current Situation of Safety Education in Elementary Schools and Improvement of Teaching Safety in Social Studies Education

- An analysis of the contents regarding elementary level safety education in the 2015 Revised Curriculum revealed that there should be a continuous and systematic curriculum in order to embrace safety concerns of elementary school surroundings
- ...but educational content should be organized to improve the ability to perceive the significance of safety issues and to resolve relevant problems accordingly.

 Teachers generally agreed with the purpose of the Seven Standards, they were passive in the implementation of education and showed negative tendency to administrative works related to safety education, so there is need to improve internal and external factors that hinder teachers implementation of safety education.

An Exploratory Study on School Safety Education after the Ferry Sewol Disaster - Focused on the Seven Standards for School Safety Education -

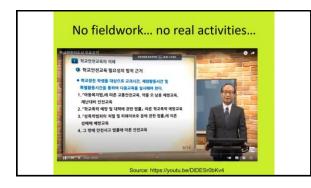
 In terms of policy execution, the Ministry of Education needs to make efforts to establish a policy to expand the expertise of the teachers in charge of safety education and to establish a "school safety" education system that supports the contents of the seven standards of education in cooperation with local related organizations and civic groups.

An Exploratory Study on School Safety Education after the Ferry Sewol Disaster - Focused on the Seven Standards for School Safety Education

Analysis of the Recognition of School Safety Education by Background Variables of High School Students

- High school students had relatively high experience in school safety education and recognized the necessity and importance of safety education more highly.
- Students' perception of 'Seven Standards for School Safety Education' was the highest in violence and personal safety, followed by first aid, life safety, traffic safety, disaster safety, occupational safety, and drug and cyber addiction.

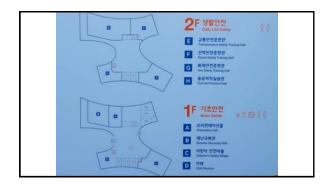














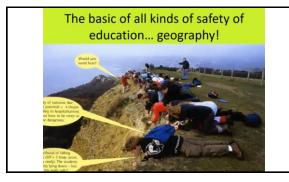


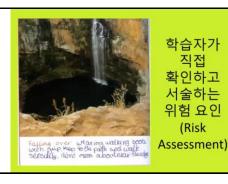


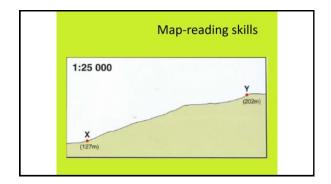
Girl, 10, used geography lesson to save lives

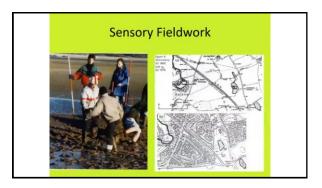
- A 10-year-old girl saved her family and 100 other tourists from the Asian tsunami because she had learnt about the giant waves in a geography lesson, it has emerged.
- Tilly Smith, from Oxshott, Surrey, was holidaying with her parents and seven-yearold sister on Maikhao beach in Phuket, Thailand, when the tide rushed out.

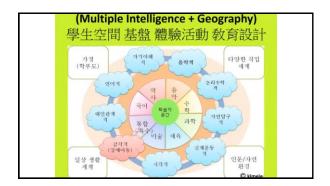
- As the other tourists watched in amazement, the water began to bubble and the boats on the horizon started to violently bob up and down
- Tilly, who had studied tsunamis in a geography class two weeks earlier, quickly realised they were in danger. She told her mother they had to get off the beach immediately and warned that it could be a tsunami.
- She explained she had just completed a school project on the huge waves and said they were seeing the warning signs that a tsunami was minutes away.

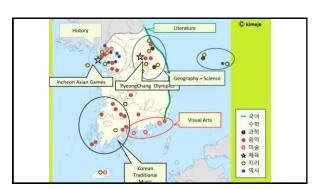












No fundamental change...

- One maritime safety expert put it bluntly: "They haven't learned the lessons of the Sewol disaster after all the sadness and national trauma."
- After the 'Sewol' ferry disaster, the budgets for the Education Ministry and regional education offices were increased to offer better safety education.

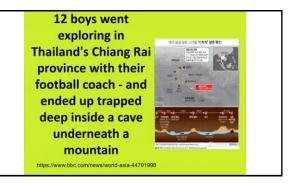
Repeating accidents... Disaster

- In May 2019 a sightseeing boat carrying 33 South Korean tourists and 2 Hungarian crew members sank again.
- Most of them were reported to die on the Danube river of Budapest after the boat collided with a larger Swiss cruise ships.
- It reminds people that safety is the most basic and important factor in travel and also shows that any significant changes of travelling culture were not made.

Harsh Reality...

- Officials have worked hard to improve maritime safety, adopting new regulations and tougher penalties for people who violate them. But rule breaking appears widespread, with the government making limited headway against an industry in which safety is still often an afterthought.
- Educational practices to prevent disasters and protect oneself on diverse environments are still poor...

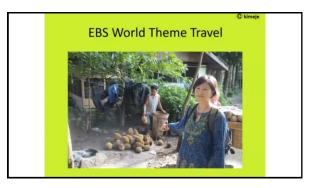














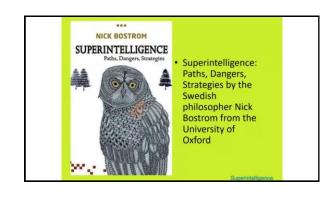


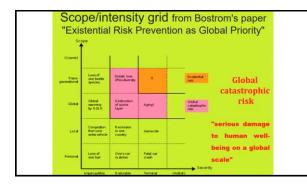
The Place of Geography in Arab/Muslim World

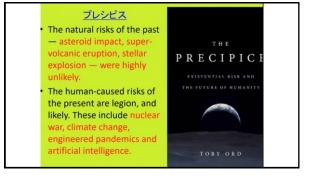
- Geography occupies an important place in both the elementary/secondary schools and universities of Arab countries.
- Main themes: Geography of the Arab World, Cartography, Physical Geography, History of Islam Civilization, Geography of Environments, Oceanography, Research in Geographic Discoveries, Economic Geography, Historic Geography, Fieldwork, World Geography, Urban and Rural Planning, Political Geography....









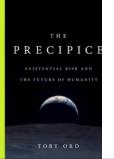




Suer-volcano

- Moreover, large super-volcano eruptions may cause a volcanic winter that could endanger the survival of humanity. The geological record suggests that supervolcanic eruptions are estimated to occur on average about every 50,000 years, though most such eruptions would not reach the scale required to cause human extinction.
- Famously, the super-volcano Mt. Toba may have almost wiped out humanity at the time of its last eruption (though this is contentious).

- Human extinction is much more likely to happen this century than in any of the other 2,000 or so centuries in which humans have been on Earth.
- To be precise: for most of that time there was only a one-in-10,000 chance of an existential catastrophe; now there is a one-in-six chance — precisely the same odds as a game of Russian roulette.





The Precipice <u>プレシピス</u> Existential Risk and the Future of Human

- Ord argues that humanity is in a uniquely dangerous period in its development, which he calls the Precipice.
- Beginning with the first atomic bomb test in 1945, the Precipice is characterized by unprecedented destructive capability paired with inadequate wisdom and restraint.

Likelihood: Natural vs. anthropogenic

- Humanity has existed for at least 200,000
 years, over which it has been subject to a
 roughly constant level of natural risk. If the
 natural risk were high, then it would be highly
 unlikely that humanity would have survived as
 long as it has.
- Anthropogenic existential risks are (much) more likely than natural risks. A key difference between these risk types is that empirical evidence can place an upper bound on the level of natural risk.

Global catastrophic risk

Anthropogenic risk, a relatively recent phenomenon

- Humanity has only survived 75 years since the creation of nuclear weapons, and for future technologies, there is no track record at all.
- This has led thinkers like Carl Sagan to conclude that humanity is currently in a 'time of perils'—a uniquely dangerous period in human history, where it is subject to unprecedented levels of risk, beginning from when we first started posing risks to ourselves through our actions.

Giodal Catastrophic risi



This concept of existential catastrophe is strictly defined as a permanent, irreversible loss of potential.

: Existential Risk and the Future of Human

 The Cuban Missile Crisis in 1962, which leaders at the time thought had a 10-50% chance of causing nuclear war, was the closest humanity has yet come to self-destruction in its 200,000year history.

The Precipice プレシピス

 the Precipice is likely to last no more than a few centuries, as humanity will either quickly develop the necessary self-control or succumb to the rapidly accumulating risk of catastrophe.

Response

- Ord states that humanity spends less than 0.001% of gross world product on targeted existential risk reduction interventions.
- He argues that motivation to fund such interventions is limited by insufficient global coordination, which could be improved via specialized global institutions.

- Moreover, interventions such as governance of dangerous emerging technologies may inherently require increased global coordination.
- Ord outlines a number of policy and research recommendations intended to reduce existential risk. He also explores several ways individuals can contribute to existential risk reduction, such as selecting high-impact careers, effective giving, and contributing to a public conversation on the issue.

