

第三章 Chapter 3

防災教育發展之現況  
Current Situation

## ❖ 第一節 國際防災教育概況

**天**然災害幾乎是每個國家都有的問題，在防治計畫上則因國情的不同而異，在此分析國外防災教育政策及現況時，特別選擇先進國家的發展概況進行解析。

在美國的防災教育行之有年，多以地區性的方式來推動，而且組織間彼此分工合作，致力於訊息傳達的一致，避免造成民眾認知上的紊亂反而收到反效果。整體而言，美國的大眾防災教育的重點在於：災害覺知、社群融入、事前準備、技術資訊提供及緊急應變計畫。而在學學生之防災教育則以學校為單位，有政府教育部門、學術研究單位及其他相關緊急應變組織來協助規劃。從相關報告中可知，「前置準備」與「災難應變」均是美國各州最重要的提倡點，而防災教育訓練更是集中於學校行政人員及教師身上。美國更設有包含人為及天然災害所造成的緊急災難管理等相關研究系所，以鼓勵與培訓防救災專門人才。

在學校防災教育方面，從可獲得的資料來看，日本與美國相似，都將「事前準備」(Preparedness) 與「應變措施」(Reactions) 置於最重要的教育點。日本2000年度的教育白皮書中對「充實防災對策」一章的基本方針為：確保各級學校學生之生命及身體安全、確保教育研究活動之實施、文教設施及相關設備之防護、防災相關科學研究之活動、災民救援活動相關措施之推動。





## 1

## Profile of Overseas E.O.D.P.

Natural disaster bothers every country in the world, the prevention and cure scheme is very different in accordance with different countries. Therefore, we will take those most advanced countries as reference first.

In the U.S., they have been promoting the education of disaster prevention for years and mostly are held as regional activities. But those divided organizations cooperate with each other in order to give out messages with consistency and avoid negative effects, which may result in cognitive confusion. Overall, the focal points of the U.S. public education of disaster prevention are: disaster consciousness, community blending, pre-event readiness, technology give-out, institutions and emergency related divisions providing help in designing scheme. As for the education of disaster prevention for students at schools shall be based on each school, which functions an education unit. The planning shall be assisted by government agencies, and academic research as well as other related emergency organizations. As information got from related reports, "pre-event preparation" and "emergency measures" are advocated by all states. The education of disaster prevention training is loaded on the shoulders of administration staff and teachers. In addition, there are university departments and institutes for emergency administration focused on man-made and natural disasters, which encourages training and cultivating professional disaster prevention staff.

As for education of disaster prevention in schools, Japan and the U.S. are similar in placing "Preparedness" and "Reactions" as the most important objects. Japan Education White Paper, published in the year of 2000, in the section of "Disaster prevention substantial scheme", they put the following as their essential focal points: assure students life and body safety, assure education research in practicing, educational facility and related equipment are in protection, disaster prevention related science study, and promote victim rescue related activities.





英國為配合聯合國政策，亦進行了教育改革，將防災教育融入新的課程標準中，其中除針對天然災害事件的物理特性進行分析外，亦補強了「人」的面向。而澳洲政府亦在聯合國的支持下，發展了輔助學校防災教育的策略，策略目標在於融入災害效應與防災訊息於學校課程，而最終目的是希望透過學校系統，提昇社區對災害防治與事前準備的覺知與教育。

聯合國的國際天然災害防治組織，IDNDR (International Decade for Natural Disaster Reduction)，在各會員國的主要工作目標是：協助災害認定、落實災害防治計畫、及建立區域和災害預測系統；在教育方面則倡導「學校災害防治文化」，希望藉由學校教育，提昇民眾對天然災害的認識，與了解災前準備和緊急應變的重要。



In order to relate to the policy announced by the U.N., England has gone on an educational reform and put disaster prevention into their new curriculum criteria. In the criteria, they not only put emphasis on the physical aspects of natural disaster, but also put emphasis on "human" aspect. Australian government with the help from the U.N. has developed policy to assist school on education of disaster prevention. Their aim is to blend disaster effect with disaster prevention information in school curriculum. Finally, they hope that with the help of school education system, communities will have better disaster prevention awareness and education.

All the members in the IDNDR (International Decade for Natural Disaster Reduction) have the same goals to achieve the followings: assist identification of disaster, implement disaster prevention scheme, and build up regional and disaster alarm system. In educational aspect, they advocate "Disaster prevention culture in school". They hope that through the help of school education, people will learn more about natural disasters, preparedness and reactions.

## ❖ 第二節 我國防災教育概況

**為** 落實天然和人為災害預防與緊急應變，防災必須與教育結合；在推行時，首先必須要取得眾人對於防災教育的共識以及學校主管、實驗室負責人對執行防災教育的決心與承諾，接著是教育及學術單位應整合現有學校課程、教育等，將現今防災知識以融入方式加入現有的課程，並透過專業的師資培訓，於各級學校建立種子教師，以執行防災教育的知識推廣與宣傳活動。但比較先進國家與國內防災教育之需求，可歸納下列我國防災教育亟待改進之現況：

### 壹

國人對災害的認識不清，危機意識薄弱

**分** 析國內諸多天然和人為災害案例，不難發現國人普遍缺乏危機意識，或漠視環境生活週遭中可能潛在危險因子，再加上缺乏防災觀念及緊急應變逃生演練，一旦災害發生，往往釀成重大悲劇。所以解決之道，則是國人應加強災害的防災觀念，將其運用在生活當中，並且從以往災害中學習經驗，避免災害重複發生。





## 2

## Profile of Domestic E.O.D.P..

In order to implement natural and man-made disaster prevention and reactions, disaster prevention should combine with education. In the process of promotion, first we need to get people's consensus on the education of disaster prevention, then the commitment and determination from school administrative staff and laboratory responsible person are also important. Therefore, education and research divisions need to come up with a school curriculum, which has put in the knowledge of disaster prevention. With the professional teacher training courses, seeded teachers are spread in schools to implement and promote education of disaster prevention. In comparison with those advanced countries and our country, the needs for improvement in education of disaster prevention are as follows:

## 1

## Unawareness of Disasters, Frail Sense of Crisis for Compatriots

Analysis those natural and man-made disasters in our country, it is not difficult to find that people in general are a lack of disaster awareness, or they overlook those potential risk factors existing in their environment. Moreover, owing to lacking practice of the disaster prevention concepts and reactions, whenever there are disasters, there are tragedies. The only way to solve this situation is to reinforce the concept of disaster prevention, and practice in everyday life. Above all, learn from experience and not to let tragedies repeat again.



## 貳

## 較少有系統的防災教育課程規劃

**防**災教育策略施行上，若缺乏有系統的防災教育課程規劃會嚴重影響防災教育推廣的成效；國內大專院校大都只有部份理工學院等科系有開設工業安全、土木工程防災等相關課程，非理工科系則只有少數有開設工安等課程，這也是大專院校無法將防災理念深度推廣的原因之一。

## 參

## 缺乏具有防災專業知識的師資

**防**災教育要在學校中推行，必需要有對防災教育有全盤性了解的專業教師，來進行教育傳承的工作，但是目前國內並無負責防災教育專業師資培訓的單位，所以至今校園內部的防災教育是直接由專任老師進行，可是因為老師往往在認知程度上的不同或缺乏共識及推廣熱誠，使得國內各學校防災教育之推廣成效不彰。

## 肆

## 較少有系統的資料庫管理及架設災害專屬網站

**由**於近年來災害發生頻傳，報章雜誌、網路、書籍刊物等，有越來越多相關於防災的資訊，但國內較少有整合性資料庫管理系統，使得這些資料無法整合管理、查詢，民眾只能由單一災害類別個別蒐集、查閱。而且缺乏整合性災害專屬網站，致無法提供民眾第一手的災害資訊，亦無法做完整的災害網站連結等，故建立整合性資料庫管理及架設災害資訊專屬網站，為未來防災教育努力的方向之一。

## 2 Few Systematic Courses for Disaster Prevention

The implementation of disaster prevention policy need to have a systematic curricular plan or the effect of promotion disaster prevention education will be deeply affected. In our country, there is only very few course about industry safety in some science and engineering departments not to mention those departments which do not belong to this field. That no wonder we have encounter difficulty to promote disaster prevention in colleges.

## 3 Lack of Teachers with Professional Background

As for promoting education of disaster prevention in schools, we need to have professional teachers first. However, there is no such an organization which responsible for training professional teachers in this field. Most of these courses in school are performed by school teachers, but different teachers have very different viewpoint concerning this subject. In addition, some teachers may lack enthusiasm to promote, therefore, our education of disaster prevention in schools are not very fruitful.

## 4 Few Systematic Data Control and Specific Web site

Frequent disasters have been reported recently, and there are more related information about disaster prevention in press, such as, newspaper, internet, books and magazines. Owing to the fact that we do not have data base management system so those information has not been organized and people can only look for a single kind of disaster at one time. Moreover, there is no organized internet page so it is difficult to give people the first hand information, not to mention a complete disaster network. In the future, set up data base management system and an exclusive internet page will meet the most urgent needs.

