population, especially in times of emergencies. However, it is questionable whether this is a realistic approach.

From various, recent international reports, it appears that sea levels may rise between a 0.5–7 meters in the coming decades. In such case, the government, essentially, may become powerless or ineffective, as demonstrated following the recent disaster from hurricane Katrina (US, 2005).

The question, therefore, is: what can the population do to prepare itself and increase sustainability in the face of possible future disasters? This presentation will delve into these issues and provide practical guidelines and advice that can help increase self-sustainability.

**Keywords**: climate; crisis-management; disaster; population; preparedness; sustainability


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(206) Preparing Citizens for Emergencies by Using Ubiquitous Learning Methods

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During the first minutes of an emergency, prior to the arrival of professional rescue workers, citizens must take care of themselves and their family mainly on their own. As a result, their self-management capabilities directly influence the health outcomes of terrorist attacks or disasters caused by natural hazards.

While governments acknowledge the importance of citizen self-management during emergencies, however, traditional information campaigns to motivate citizens to prepare themselves often seem to fail. One of the potential causes for this failure might be that these campaigns seldom are adapted to the specific knowledge, skills, and motivational needs of the individual citizens.

Ubiquitous learning principles may be useful in this context. The definition of ubiquitous learning is learning whenever and wherever it is desired and needed and is facilitated by use of a flexible mix of mobile technologies (personal digital assistants (PDAs), smart phones, game consoles) and interactive, adaptive didactical strategies.

Rather than providing everyone with the same information, this approach offers essential content using a range of content varying from games and simulations, and checklists. Citizens are encouraged to actively search information or entertainment that matches their interest. Once downloaded to a mobile device, the information is available even when networks go down during an emergency, and can be used to access information during an emergency.

**Keywords**: citizens; disasters; emergencies; preparedness; ubiquitous learning principles

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(207) Implementation of Emergency Medical Service during the Primary Stage of a Disaster: The Emergency Response Plan of the National Museum of Natural Science

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With the growth of exhibitions, exposition, sports and live concerts, the capacity of auditoriums, stadiums, exhibition halls and convention centers will become larger to accommodate more crowds. However characteristics and complexity of the above structures generate the demand of emergency response far beyond the traditional plans for the ordinary structures like office buildings and schools. In museums, the remodeling for new exhibition could change the route of evacuation, modify utilization of the space and even add some inappropriate materials by decorations. All these factors will produce impacts on emergency. The plan for mass-rally space such as museum will require a specific strategy to cope with the large amount of causalties and evacuation. The National Museum of Natural Science, attracting 3,505,495 visitors in 2005, is the most popular one in Taiwan and the pupils of elementary schools contribute to the main part of visitors. As the consequence, the necessity of emergency plan will become a major concern from the general public. This article will describe the systemic emergency plan for museum on the issues of modeling to estimate the number and category of casualties and establishing the response plan and standard procedures for medical deployment. Furthermore, the cooperation and collaboration with EMS of fire department and DMAT of local hospitals will advance the practical application under emergency and improve the safety of audiences.

**Keywords**: disaster; emergency medical services; planning; preparedness

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(208) Health Issues of Women Refugees in Canada: A View from Kosovar Women and Sponsor Groups Involved in Settlement

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Introduction: After the 1999 Kosovo crisis, approximately 500 refugees from Kosovo arrived in the city of Hamilton, Canada. Volunteer sponsor groups affiliated with a local settlement agency assisted the families with settlement. This study describes experiences and issues identified pertaining to the women's health after their arrival.

**Methods**: Both quantitative and qualitative methods were used. Women from 50 randomly selected families self-completed questionnaires about their health, the Harvard Trauma Questionnaire, and use of preventive health services. Sponsor groups participated in focus groups regarding the issues faced when assisting the Kosovars. Three analysts coded transcripts for themes to reach consensus.