

# Preface

Japan Sea Region Research Institute was established 9 years ago in 2003 with the sole objective of bringing geoscience and geotechnically based researchers together. The founding members shared the idea of having an international research meeting which would accommodate other research areas that are related to the field of geotechnical engineering. Target participants and contributors were Japanese and foreign researchers around Japan Sea. The first international symposium was held in December 2003, in Kanazawa University Japan, under the title: “First International Symposium on Mitigation of Geo-hazards in Areas around the Japan Sea”. Though the opening ceremony was missed by some foreign researchers due to heavy snowfall in and around the venue city, the symposium recorded huge success as everyone, through lively discussions, shared views and opinions on current scientific problems, and the participants unanimously decided to make the symposium an annual event.

With success established, there was need to expand the research area to accommodate studies in geohazard mitigation and prevention like seismology and earthquake, building and pipeline engineering, and the target area was expanded beyond the countries around Japan Sea to larger areas including Indonesia, Iran, and so on.

Scientific research has no end. The more we probe and solve environmental problems, the more we discover more unsolved problems. This is why we must not relent in providing answers and solutions to pertinent geoenvironmental challenges. In commemoration of the tenth annual symposium, we are very happy to present to you the results of our latest research works. On behalf of the first chairpersons of the Steering and Organizing Committee in 2003, I would like to thank everybody so far present at the symposium and those who have in one way or the other contributed to the success of this event.

## 序 文

今から 9 年ほど前、筆者らの何名かが所属していた金沢大学に日本海域研究所があった。地盤の研究をしている仲間で、研究所の名前に相応しい国際的な研究集会を始めようと図り、知っている外国の研究者に声をかけ、12 月に金沢で、第一回日本海域地盤破壊軽減国際シンポジウムを開催した。あいにく豪雪が金沢を来襲し、外国の研究者の中には開会式に間に合わなかった人もいた。活発な討議を通じて、多くの課題のあることをみんなが認識し、来年以降も開催することを決めた。その後、研究のテーマは地盤のみでなく、地域も日本海域にとどまることはなかった。今回、第 10 回を記念して、われわれの最近の到達点を紹介できることを非常にうれしく思う。しかし研究に終わりはない。研究を進めると、また新しい課題が出てくる。われわれはこれからも研究を続ける。

これまでにこのシンポジウムで発表し、サポートして下さったみなさまに心からの感謝を捧げる。

第一回目の実行委員会と組織委員会を代表して

金沢大学名誉教授 北浦 勝



Japan, May 22, 2012

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