

PREFACE

This Symposium was jointly sponsored by the Japanese Society of Soil and Foundation Engineering and the Korean Society of Geotechnical Engineers. It is important to note that this is the first such a Symposium, and we are naturally obliged to make a good beginning for the future generation.

The theme of this symposium is "Excavation and Tunneling in Urban Areas." This is most timely and pertinent at the particular stage of development facing in Korea. Most of the civil engineering works in urban area require excavation and tunneling through the narrow space between the existing buildings as it is necessary to dig deep below the ground surface in order to build underground structures. Our tasks of excavation and tunneling entail such engineering problems as noise, vibration, slope failure, sinking of surface ground, and even the settlement of neighbouring buildings, and that certain tunnelings have to pass through under the existing buildings. So the challenge before us is how to minimize and solve these problems while doing our jobs properly.

This volume contains papers contributed for the Symposium by Korean and Japanese experts in our common field of excavation and tunneling. I hope this volume of papers will be useful and inspiring for practitioners and researchers in this field of specialties.

I would like to take the opportunity to express my heartfelt gratitude to our Japanese counterparts, especially Professor Tasuoka, for their full cooperation and valuable aids which made this Symposium possible. And there is no word to describe my gratitude and satisfaction for the gracious helps which I received from Prof. Paik, the secretary of the executive committee, and my fellow committee members preparing for this important event. This Symposium was financed by the Korea Science Foundation, many consultants and construction companies in Korea.

Sang-Kyu Kim

Chairman, Executive Committee

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