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New Technologies in Construction and Rehabilitation of Portland Cement Concrete Pavement and Bridge Deck Pavement



Edited by
Moon Won
Yoon Ho Cho
Shiraz Tayabji
Jianbo Yuan

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Preface

The GeoHunan Conference has come at an opportune moment for the bridge construction and concrete pavement areas. In concrete pavement area, the last few years have seen significant enhancements in design and construction methodologies. In addition, the durability aspect of concrete pavement, which has been neglected for so many years, has finally started getting the attention it deserves. Current concrete pavement design procedures have been criticized for the lack of accuracy and obscure definitions of input variables in the design procedures. Papers submitted to this Conference reflect the efforts that researchers have made to address the deficiencies in the current concrete pavement design procedures. Since substantial portions of existing concrete pavement systems in some countries are approaching the end of their structural lives, rational methods for rehabilitation have become more important. The durability aspect of concrete pavement is becoming more important in many countries as well, since concrete pavements usually provide much longer performance period than asphalt pavement, and quite often, durability is the limiting factor to concrete pavement performance. Excellent papers were submitted in this area, which will help practitioners worldwide in improving the efficiency of their operations in rehabilitation designs and developing more durable concrete.

Bridges represent essential and important elements in the infrastructure system in any nation. Engineers have faced a number of issues related to optimum bridge designs and material selections, along with construction techniques. Different bridge types, design methods and construction techniques have been used in different parts of the world. Engineers should share their expertise and experience in this area so that better ideas and practices can be developed. The papers submitted in this area represent substantial information that researchers and practitioners have developed and gathered over the years. This information will undoubtedly enhance the state of knowledge in bridge design, materials selection and construction technique.

The editor wishes to thank the authors for their willingness to share valuable information with other professionals in this area and to spend their valuable time developing high quality papers. The editor also believes that the Proceedings will provide valuable resources for both researchers and practitioners and a reference for future research in this area.

Moon Won
Editor

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