

PREFACE

This volume contains research papers focusing on Geopolymer and Green Technology. This special issue aims to provide a high level research paper for researchers, engineers and scientists to present their new advances and research results in the field of geopolymer materials engineering and technology.

Green technology refers to the development and applications of products, equipment and system to preserve the environment and natural sources, minimize or reduce human negativity impact. Products, system and equipment can be classified as green technology according to three criteria as below:

- i. It minimizes negative environmental impact, low or zero emission of greenhouse gas, safe to use and can provide a healthy environment for a better life
- ii. Can conserve natural sources and energy
- iii. Encourage the use of renewable sources

Geopolymer is inorganic materials based on aluminosilicate that can be produced by synthesizing pozzolanic materials with highly alkaline solutions. Many by-products wastes, including coal combustion ashes, metallurgical slags, constructions and demolition wastes can be utilized for the production of geopolymer concrete and construction components. As such geopolymer also can be classified as one of the solution towards green technology.

The editors hope that this volume will provide the reader a broad overview of the latest geopolymer and green technology technology, and that will be as valuable reference source for further research.

The editors would like to express their sincere appreciations and thanks to all the committee members of the Special Issue Geopolymer & Green Technology for their tremendous efforts. Thanks also to Trans Tech Publications for producing this volume. Finally, the editors would like to thank all the authors for their contribution to this valuable volume.

Mohd Mustafa Al Bakri Abdullah
Zarina Yahya
Liyana Jamaludin

Universiti Malaysia Perlis, MALAYSIA

August, 2015