Title of the Book Series:

**Applied Environmental Science & Engineering for a Sustainable Future (AESE)**

Editors: V. Jegatheesan, L. Shu, P. Lens and C. Chiemchaisri

Book Title:

**Sustainable Aquaculture**

Authors: Chettiyappan Visvanathan, Ramaraj Boopathy and Faisal I. Hai

1. Professor & Dean, School of Environment, Resources and Development, Asian Institute of Technology, PO Box 4, Klongluang Pathumthani, 12120 Thailand, visu@ait.ac.th
2. Department of Biological Sciences, Nicholls State University, USA, ramaraj.boopathy@nicholls.edu
3. School of Civil, Mining and Environmental Engineering, University of Wollongong, Australia, faisal@uow.edu.au

**Call for Chapters**

Aquaculture *i.e.*, the farming of fish, shellfish and aquatic plants is a highly diverse industry. The aim of this book is to provide a comprehensive coverage of the aspects related to sustainable aquaculture. We are calling for chapters on the following:

- The water and ecological impacts of aquaculture vary with species, farming techniques, specific location and surrounding environmental conditions and wildlife. As such the chapters in this book will provide due consideration to the impact of all these components.

- The spread of organic waste and nutrients released by fish farms to natural water bodies has raised considerable concerns, and methods to prevent their dispersion and removal (treatment) will form an important focus of this book. In this context, the importance of integrated multi-trophic aquaculture *e.g.*, farming fish alongside algae (which absorb nutrients) will be highlighted.

- The effect of use of antibiotics (to prevent fish disease) and antifoulants (to prevent biofouling of equipment) on the surrounding marine environment is an emerging area of concern, and a critical discussion on this aspect will be provided.

- The pros and cons of offshore vs. coastal farming in the light of the ecological impacts of aquaculture will be outlined.

- The adequacy of the current legislations to address issues including water quality, biodiversity protection and sustainable development and planning will be critically analysed.

- A special focus will be given to regulations on the prevention and management of the introduction and spread of invasive alien species.

- Important considerations including the methods of environmental impact assessment for planning and development of new aquaculture sites will also be covered.
Applied Environmental Science and Engineering for a Sustainable Future
Series Editors: Jegatheesan, V.J.; Shu, L.; Lens, P.; Chiemchaisri, C.