

Open Research House

on Coastal Wave Modelling & Simulation during the whole month of January 2011, at Lawangwangi, Bandung Indonesia



In the refreshing northern hills of Bandung, the non-profit independent research institute LabMath-Indonesia (LMI) finds its housing in the modern Art & Science Estate 'Lawangwangi'. At LMI, students and young researchers work on various environmental problems using mathematical modelling and simulation methods.

One main area of research at LMI deals with coastal waves. Spectral codes, as well as time-accurate codes are being used and developed for research on such topics like long wave generation, harbour simulations, etc. These activities, and the excellent opportunities given by Lawangwangi, motivate us to invite interested researchers to take part in the Open Research House.

Format of the Open Research House

During the month January 2011, our aim is to provide a pleasant, informal atmosphere in which a mix of young and experienced scientists can communicate with colleague researchers on topics of mutual interest. Although participation is open for all nationalities, this first ORH is especially directed to participants from the **South-East Asian region**.

Topics for discussion and collaboration can be proposed by the participants. To give some specification of the area of interest, a few test cases have been made available; participants are invited to formulate and share their own test cases or problems to others. Shared interest should lead to ample opportunities for interesting discussions, lectures (series) or demonstrations, the format varying depending on topic and preference.

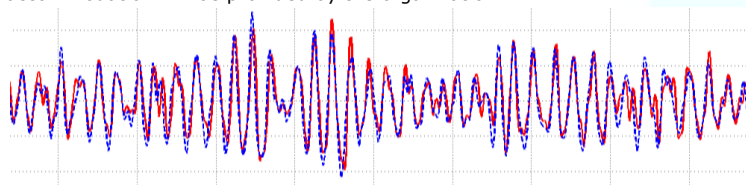
Participation

Individuals, or small groups with a mix of young and experienced researchers, can choose the period of participation (the whole month or any part of it) themselves. Registration is requested as soon as possible, preferably **before 1 December 2010**. Proven interest in development or use of standard (commercial) software for relevant problems will be used as guideline for acceptance for participation.

Depending on interest, and in communication with the participants prior to the meeting, specific *topic-periods* may be formed; such periods of focussed attention to a specific topic will then be announced on internet.

Organization and fee

The organization will be kept as simple as possible, but will provide help with finding accommodation of preferred luxury. No formal fee will be requested; participants are requested to contribute to cover the costs depending on their capability and experience, before or after their participation. No subsidy for cost of living or accommodation will be provided by the organization.



Scientific Committee

Dr. Andonowati, LabMath-Indonesia
Dr. Nining Sari Ningsih, ITB, Indonesia
Prof. Safwan Hadi, ITB, Indonesia
Dr. Tim Bunnik, MARIN, Netherlands.

Organizing Committee

Prof. Brenny van Groesen, LMI & UTwente Netherlands
Dr. Wiwin Windupranata, LabMath-Indonesia
Didit Adytia, LabMath-Indonesia

Further information

For technical/secretarial questions concerning letter of invitation (for visa), accommodation, etc., contact Mr. Didit Adytia at didit@labmath-indonesia.org

Application for participation

Individual and group applications will be judged on information provided online at www.labmath-indonesia.org/events or in one pdf-document by email to international@labmath-indonesia.org:

- 1 page CV (of each participant), emphasizing the achievements in the topic of the ORH (young students should clarify their academic level and performance, adding their academic record)
- 1 page description of the main research interest and motivation (of the group)
- for group applications: 1 page description of the composition of the group, a short characteristic 'group name', and the name and contact email of the group-coordinator and contact person
- *optional*: a description of interesting study case(s); provide sufficient (reference to) information and data so that others can study or simulate the case. By submission, it is understood that the authors agree - and have the right- to make this information publicly available on internet.
- *optional*: any specific suggestions or requests to optimize the execution of the ORH.

For smooth communication, participants are expected to be sufficiently fluent in the English language.

To decide about acceptance, the organizers may be advised by members of the scientific committee.

Example: LMI - Test cases

The organizers have formulated three test cases; details can be downloaded from: www.labmath-indonesia.org/

1. 1D Focussing wave group above flat bottom (MARIN experiment, elevation signal given at flap)
2. 1D Irregular waves above varying bottom (MARIN experiment, elevation signal given at flap)
3. 2D wind generated coastal waves at North coast of Jawa (spectral properties are requested at a specified position in given time period).

Support

Financial support for the ORH is provided by

- Royal Netherlands Academy of Arts and Sciences, KNAW 09-MP-06
- MARIN, Netherlands
- BMT Argoss



Other organizations that want to sponsor the ORH are very welcome and can contact Dr. Andonowati, andonowati@labmath-indonesia.org.