

Newsletter September 2008: Splitting-Group in Action

Dear Colleagues, Students and Friends of our Splitting Group in Action, recently we celebrated our first anniversary of the newsletter. Now we have one year together, announcing new activities and meeting us in different conferences.

Let us go on to the next years and hope to be so prosperous and efficient with our activities.

Thanks for the activities in the first year and let us achieve more innovative and respectable results to our splitting methods.

We will see in future to gain an important topic in the research fields.

In many conferences and announcements, we are motivated to develop methods that are needed to solve multi-scale and multi-physics problems.

Coupling multiple scales of micro-and macro-models, using new and standard codes will be a hot topic in future.

Let us be a part of such upcoming research topics and educate our students in these areas.

Recently, new members entered our group with their background in reconstructing of surfaces. Here, methods are needed to couple such multiscale and multifield surfaces. A close collaboration to such topics will help to contribute new splitting methods.

New special issues will help us to propose our new methods. Recently, I also got the chance to be an subject editor of a special issue, which will be published next year. Please let me know your interest.

Publishing good results, developing decomposition methods to solve modern problems and creating a large network to contribute our ideas, that is what we hope to do with our splitting group.

Let us join the next events and discuss our new problems in journals, special issues etc.

The next events are coming soon, see the workshop in Innsbruck.

Please see also some conferences for the next year: MIT, SCICADE, NUMD-IFF.

Many thanks for the first year with activities in our network. I wish you all a nice time and a prosperous next year.

Best regards,

Juergen Geiser

Next events and remarks :

- 1.) Workshop 2008, Annual conference 2009.
- 2.) Next year events
- 3.) Special Issues
- 4.) Open positions
- 5.) Foundations
- 6.) Remarks

ad 1.) Conferences 2008 :

1.1.) Innsbruck, October 2008.

A conference with the special topic, "Splitting Methods in Time Integration", is now announced.

organizer : Prof. A. Ostermann, University of Innsbruck, Austria ,

Time and Location:

October 15-18, 2008, Innsbruck, Austria

<http://techmath.uibk.ac.at/numbau/alex/events/conference2008.html>

Deadlines:

Final program : September 2008.

For late registration please contact Prof. Ostermann : alexander.ostermann@uibk.ac.at
or Felix Kramer : Felix.Kramer@uibk.ac.at

ad. 2.) Events in 2009

2.1.) MIT, June 2009

Our annually conference in 2009 will be held at MIT, Boston, USA :

Fifth M.I.T. Conference on Computational Fluid and Solid Mechanics : Advances in CFD, June 17 - 19, 2009

please visit: <http://www.fifthmitconference.org>

Recent Advances in Decomposition Methods for Computational Fluid Mechanics: Theory and Applications Organizers : Geiser Juergen, Sheng Qin

See our mini-symposium page:

<http://www.mathematik.hu-berlin.de/>

2.2.) Scicade, Beijing, May 25-29, 2009.

see :

<http://www.conferencenet.org/conference/scicade.htm>

2.3.) Numdiff 12, Halle, September 2009.

see :

<http://sim.mathematik.uni-halle.de/numdiff/Numdiff12/>

ad. 3.) Special Issue :

3.1.) Special issue of our conference papers.

Subject Editor: Juergen Geiser.

Publisher : Nova Science, USA (<https://www.novapublishers.com>)

Title : Decomposition Methods in Multiphysics and Multiscale Problems, Research Monograph with multiple authors.

Outline: The monograph deals with multiphysics and multiscale problems known in multiple flow and multi-dimensional transport and reaction models, e.g. deposition problems, fluid dynamic problems and kinetic reaction problems. The authors contribute the analysis of temporal and spatial decomposition methods for model problems based on evolution equations and discuss their characteristics to solve their problems efficiently. Numerical simulations are presented to discuss efficiency, implementability and ideas to use existing software tools.

Deadline submission: December 2008.

Review process: January-March 2009.

Publishing Date: June 2009.

ad 4.) Open positions :

none.

ad 5.) International Foundations to be important for our European group members:

5.1. European Science Foundation (ESF) and European Research Council (ERC) :

see : <http://www.esf.org/research-areas/physical-and-engineering-sciences.html>

and

see: <http://erc.europa.eu/index.cfm>

ad 6.) Additional remarks

New conferences, open positions, new special issues can be announced.

Please let me know your ideas and feedback.

Thanks for your time and your cooperation.

With best regards,

Juergen Geiser