

Dear CECAM friend

CECAM has by now completed its move to Switzerland with its headquarters on the EPFL campus in Lausanne. We are excited about preparing the new nodal structure and initiate a coordinated effort in research activities and scientific meetings.

With this note we wish to solicit proposals for workshops and tutorials for the 2009 CECAM programme.

As in the CECAM tradition, workshops are intended as a forum for the discussion of a specific topic and tutorials for the introduction of PhD students, young researchers and neophytes to learn either fundamental aspects of the simulations-driven approach to science or specific methodologies of wide interest.

We plan to keep the format of the workshops that has revealed most successful over more than a decade, namely typical duration of 2-4 days and number of participants between 20 and 50. The organizers will still be responsible for advertising their initiative, selecting the presentations and the participants. Financial assistance from CECAM will also be at the usual level, namely typically 9,000 € for a three-day workshop.

The organizers will be asked to provide a detailed report on the main findings and conclusions of the workshop or on the results of the tutorials, possibly with suggestions for related future activities. This report will be made available online together with talks/poster presentations.

We wish to emphasize that CECAM intends to extend the range of interest beyond the traditional ones of particle-based simulations and especially to promote the synergy of mathematical and physical sciences. The topics we would like to consider this year for workshops and tutorials **include**

- New Algorithms for Simulations, Optimization and Analysis
- Computational Biology (includes e.g. Neuroscience, Biochemistry, Systems Biology)
- Computational Chemical Dynamics of Complex Systems
- Computational Materials Science and Nanoscience
- Simulations of Soft-Matter and Disordered Systems
- Computational Geophysics (e.g. earthquake simulations)
- Computational Plasma Physics
- Computational Fluid Dynamics
- Climate Modeling (includes e.g. Oceanic and Atmospheric Simulations)
- Simulations of Phase Transitions and Critical Phenomena

Proposals should be submitted online using the web based procedure on <http://www.cecarn.org>. As for a workshop, the motivation and novelty of the proposal will have to emerge clearly, the state-of-the-art of the field should be described exhaustively with emphasis on the open issues on which the discussion is intended to focus and eventually help to make progress. As for a tutorial, clear arguments will have to be presented to motivate the need for it and a complete plan of lectures should be provided.

The deadline is October 1st, 2008.

The members of the Council of CECAM will evaluate each proposal and decide upon acceptance during their meeting of November 27-28, 2008. Notice will be sent to you within ten days at latest.

We are looking forward to receiving your proposals

Wanda Andreoni & Mauro Ferrario
CECAM