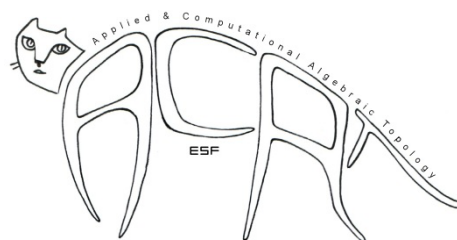


## ESF-PESC Networking Programme

### Applied and Computational Algebraic Topology

Newsletter 9<sup>1</sup>

February 2015



The ACAT programme of the European Science Foundation ESF has run since July 2011 and will terminate in July 2015. The steering committee has decided how to use almost all the remaining available funds. A very limited reserve can be used to support a few visits, cf. below.

#### ACAT workshops, conferences and summer schools

The following events have received or will soon receive support from the ACAT network:

- [Seventh de Brun Workshop: Homological Perturbation Theory](#), National University of Ireland, Galway (IRL), December 1-5, 2014.  
47 participants, 24 talks, poster session
- [XXIst Oporto Meeting on Geometry, Topology and Physics](#) focusing on Applications of Topology, Lisbon (P), February 4-7, 2015.  
94 participants, 34 speakers
- [Geometric and Topological Methods in Computer Science](#), Aalborg (DK), April 7-10.
- [Homotopy in Concurrency and Rewriting](#), École Polytechnique, Palaiseau (F), May 25-28
- [Special session # 6 on Applied algebraic topology](#) as part of the AMS-EMS-SPM meeting, Porto (PT), June 10-13, 2015.
- [Dynamics, Topology and Computations 2015](#), Bedlewo (PL), June 15-20.
- Summer School on [Computational Topology and Topological Data Analysis](#), Ljubljana (SLO), June 22-27.
- Conference [Applied and Computational Algebraic Topology](#), Vienna (A), July 6-10.  
The ACAT steering committee will meet for a final time to evaluate the networking programme and to discuss options and platforms for future collaboration.

#### Visit and exchange grants

So far, ACAT has sponsored six exchange grants (ranging from one to four months) and 38 visit grants (ranging from a few days up to two weeks). We can support a few visits in the remaining grant period, i.e., before July 9, 2015. If you are interested, please [apply](#) as soon as possible. The steering committee has appointed a subcommittee consisting of Neza Mramor Kosta, Aniceto Murillo and Martin Raussen to handle grant applications.

#### ACAT web site:

Please contribute with ideas and suggestions to the [ACAT web site](#) maintained by Samuel Mimram!

Another interesting page to consult is <http://appliedtopology.org/>.

#### Final report

A final report has to be delivered to the ESF two months after the termination of the programme. This is

---

<sup>1</sup>Previous Newsletters can be found at <http://acat.lix.polytechnique.fr/>

why beneficiaries should expect contributing to the final report with a list of their ACAT related publications in the summer period.

#### IMA threatened

Many of you will have good memories of the thematic year on [Scientific and Engineering Applications of Algebraic Topology](#) at the IMA in Minneapolis, MN, USA. **The National Science Foundation (NSF) has decided to end its funding of the IMA through its Math Institutes program, putting the IMA into a ramp-down phase. The IMA will cease to exist in its present form on August 31, 2017.** The IMA had undergone a site visit in the autumn of 2014 resulting in a recommendation for continued funding from the National Science Foundation. This is why the oral communication to the IMA (no longer funding it after two years of ramp-down) was met by surprise and choc. The decision has probably to be seen on the background of severe budget cuts that the NSF Division of Mathematical Sciences had to absorb in recent years. Mathematicians who profited from participation in IMA programs have set up a [petition](#) urging the NSF to reconsider its decision. Please consider joining! More information in the editorial of the last [CIAM Newsletter](#) (page 2-3).

#### Research Network in Applied Algebraic Topology

The [Research Network in Applied Algebraic Topology](#) (director: Peter Bubenik) organizes weekly online [seminars](#) .

#### Topology in Motion

A program [Topology in motion](#) is planned at the Institute for Computational and Experimental Research (ICERM, Brown Univ., RI, USA) for the fall semester of 2016.

#### New book on Applied Topology

Robert Ghrist, [Elementary Applied Topology](#) .

#### Calendar of Events

- [XXIst Oporto Meeting on Geometry, Topology and Physics](#) focusing on Applications of Topology, Lisbon (P), February 4-7, 2015.
- [Homology: Theoretical and Computational Aspects](#), Genova (I), February 9-13, 2015.
- [Computational Geometry](#), Schloss Dagstuhl (D), March 8-13, 2015,.
- [Geometric and Topological Methods in Computer Science](#), Aalborg (DK), April 7-10, 2015.
- Special session # 6 on [Applied algebraic topology](#) as part of the AMS-EMS-SPM meeting, Porto (P), June 10-13, 2015.
- [Dynamics, Topology and Computations 2015](#), Bedlewo (PL), June 15 -20, 2015,
- Summer School on [Computational Topology and Topological Data Analysis](#), Ljubljana (SLO), June 22-27, 2015.
- [Applied and Computational Algebraic Topology](#), Vienna (A), July 6-10, 2015.
- [Combinatorial and Toric Homotopy](#) including a Workshop on Applied Topology, IMS, NSU Singapore, August 2015.
- [Computational Geometric and Algebraic Topology](#), Oberwolfach (D), October 11-17, 2015.

