



ACAT Mid-term evaluation

As announced in the previous newsletter, the ACAT network underwent mid-term evaluation in spring. A written report had to be delivered to a scientific review group and to be defended at an “oral exam” in Bruxelles on May 21. We still have not received the report from the “rapporteur” but it was stated that ACAT can continue as originally planned.

Here is a comparison of our budget and the actually spent amounts for various types of activities from the report (figures in k€):

Activity	Budget	Spent/ Committed	Available
Steering Committee	14	9	5
Science Meetings	45	56	-11
Grants for Visits	56	20	36
Website/Publications	7	2	5
External Administration	12	6	6
Total	134	93	41

It shows that we have spent too little money on grants for short time and exchange visits (a concern for the review group!) and that there is money left (around 200k€) for the remaining two years of ACAT’s lifetime. The chair has recently applied for a prolongation of the running time of ACAT until the end of 2015 (instead of July 2015) – without additional money; no answer so far. Since the European Science Foundation is under sort of liquidation, a positive answer cannot be taken for granted.

Conference activities supported by ACAT in 2013

- 17th IAPR International Conference on Discrete Geometry for Computer Imagery, Sevilla (ES), March 20-22, 2013, 96 participants, <http://dgc2013.us.es>
- Summer school on computational topology and topological data analysis, Ljubljana (SI), July 1-5, 2013, 60 participants, many students working on projects, <http://acacat2013.fmf.uni-lj.si/>
- Computer Algebra in Algebraic Topology and its Applications, Málaga (ES), July 2-6, 2013, 25 participants, <http://grupo.us.es/cataamgroup/index.php/8-cat-aca2013/4-aca2013>
- Applied and Computational Algebraic Topology, Bremen (DE), July 15-19, 2013, 46 participants, <http://www.alt.uni-bremen.de/ACAT13/>

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

- Applied Topology Bedlewo (PL), July 22-27, 2013, 100 participants, <http://bcc.impan.pl/13AppTop/>

All these activities have been highly successful.

Visit and exchange grants

So far, ACAT has sponsored one exchange grant (1 month) and 18 visit grants (ranging from a few days up to two weeks). For future grants, please apply at <http://www.esf.org/activities/research-networking-programmes/physical-and-engineering-sciences-pesc/current-research-networking-programmes/applied-and-computational-algebraic-topology-acat/grants.html>. The subcommittee deciding on these grants (Feichtner-Kozlov, Murillo, Raussen) will continue its work.

Steering committee meeting

ACAT's steering committee met on July 16 during the conference in Bremen; 10 out of 13 members were able to participate. Future conferences were discussed, among them the following options:

- Structures mathématiques du calcul, Lyon (FR), Jan 6 – Feb 7, 2014, <http://smc2014.univ-lyon1.fr/doku.php>, 5 weeks of workshop/winter school.
Budget 100k€, request from ACAT: 11k€.
- Geometry and Topology, Lisbon (PT), 4 days, July 2014. Two days will be devoted to moduli space problems, two days to applied and computational algebraic topology. Expected request from ACAT: up to 7.5k€.
- Advanced course and a follow-up workshop “Applied Algebraic Topology”, probably in September 2014 (30 students, 50 participants) at CIEM, Castro Urdiales in Spain. The total budget for a week would be around 30k€.
- The 4th edition of the conference DYTocomp in the summer of 2015 at Bedlewo (PL). Expected request from ACAT: up to 8k€.
- A new proposal for a CTIC conference is expected and to take place in Romania during 2014. ACAT support would be very helpful.
- A workshop on ACAT related themes at the de Brun center, Galway (IE), in 2015. Graham Ellis will apply for support from Science Foundation Ireland. Co-funding from ACAT would be up to 7.5k€.
- A final general ACAT conference in the summer of 2015 (similar to the one in Bremen). Preferably in Vienna, Aalborg as a reserve. Expected request from ACAT: around 15k€.

The steering committee approved to support the two first mentioned conferences once a satisfying application has arrived – with the amounts mentioned above. Also the other projects deserve ACAT support, but a formal decision will only be made once applications have arrived; also the amount of support will have to be discussed once the conditions have been clarified. The SC is open for to discuss further applications. To apply for support of conferences/summer schools that take place in 2014, please use the form available on <http://www.esf.org/activities/research-networking-programmes/physical-and-engineering-sciences-pesc/current-research-networking-programmes/applied-and-computational-algebraic-topology-acat/science-meetings.html> .

ACAT web site:

Please contribute with ideas and suggestions to the ACAT web site <http://acat.lix.polytechnique.fr/> !

Calendar of Events:

- September 1, 2013 – June 30, 2014: IMA Thematic year on scientific and engineering applications of algebraic topology. Twin Cities MN, USA: <http://www.ima.umn.edu/2013-2014/>
- January 6 – February 7, 2014: Structures mathématiques du calcul. Lyon, France: <http://milyon.universite-lyon.fr/>
- February 10 – 14, 2014: Topological Data Analysis, Program on Low-dimensional Structures in High-dimensional Systems (LDHD). Statistical and Applied Mathematical Sciences Institute (SAMSI), North Carolina, USA: <http://www.samsi.info/workshop/2013-14-ldhd-topological-data-analysis-february-10-14-2014>
- January 20 – May 23, 2014: Algebraic Topology. MSRI, Berkeley CA, USA: <http://www.msri.org/web/msri/scientific/programs/show/-/event/Pm8964>
- April 22 – July 11, 2014: Semantics of proofs and certified mathematics. IHP Paris, France: <http://ihp2014.pps.univ-paris-diderot.fr/>
- May 26 – 30, 2014: Algebraic Topology: Methods, Computation & Science (ATMCS 6). Vancouver, Canada: <http://atmcs6.appliedtopology.org/>

Application for a trimester at the Hausdorff Institute in Bonn

After a discussion at the meeting of the steering committee, an organizer group consisting of Herbert Edelsbrunner, Michael Farber, Dmitry Feichtner-Kozlov and Martin Raussen has applied for a trimester on *Applied and Computational Algebraic Topology* during the summer of 2016 at the Hausdorff Institute for Mathematics (HIM) <http://www.him.uni-bonn.de/> in Bonn, Germany. The Hausdorff Institute hosts mathematicians from a particular thematic area during a 4 months period; ideally, they ask for around 10 seniors, 10 postdocs and 10 PhD-students at any given time. HIM supports local expenses. Summer school, seminar and conference activities can be incorporated.

A decision is expected in January 2014.