

29th Annual Symposium on Computational Geometry

June 17–20, 2013
Rio de Janeiro, Brazil

Agenda

▶ Committee reports

- ▶ Local organization
- ▶ Program committee
- ▶ Video/multimedia committee
- ▶ Workshop committee
- ▶ Young Researcher Forum committee

▶ CG Week 2014 — Kyoto, Japan

- ▶ Local organization
- ▶ Program committee

▶ Announcements

▶ *JoCG* proposals

▶ Colocation with STOC 2016

▶ Bids for SOCG 2015

▶ **SOCG and ACM**

CG Week 2013

CG Week 2013

local chairs

Thomas Lewiner, Luis Peñaranda



Merci Equipeee!!

Luis Peñaranda, Renata Nascimento, João Paixão.

Guilherme Fonseca, Amancio Júnior, Max.

Allan Rocha, Allyson Cabral, Bruna Martins,
João Pedro Brandão, Jyrko Morris, Karen Silva,
Karine Pereira, Marcelo Arruda, Michel Alves,
Pablo Telles, Rafael Martinez, Romain Faugeron,
Taís Pereira, Thiago Gomes.

obrigado chefes!



UNIRIO



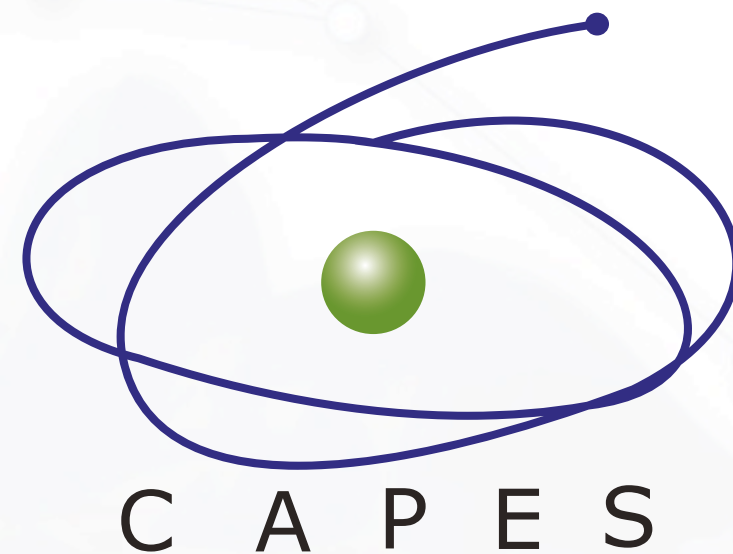
PUC
RIO



Matemática
PUC-Rio



thanks for the help!



promotion, help?



ACM SIGGRAPH



2012's comments

CG:APT and prizes dramatically increased student participation - *cheap registration works too.*

Too many workshops - *reduced to 3, max 2 parallel \Rightarrow long days!*

Tie plenary speakers into workshops - *not compatible with deadlines.*

Several small sponsors - *Brazilian institutions and Springer.*

Print proceedings demand was low - *no printed proceedings.*

University account for \$ 700 - *home made = \$ 80!*

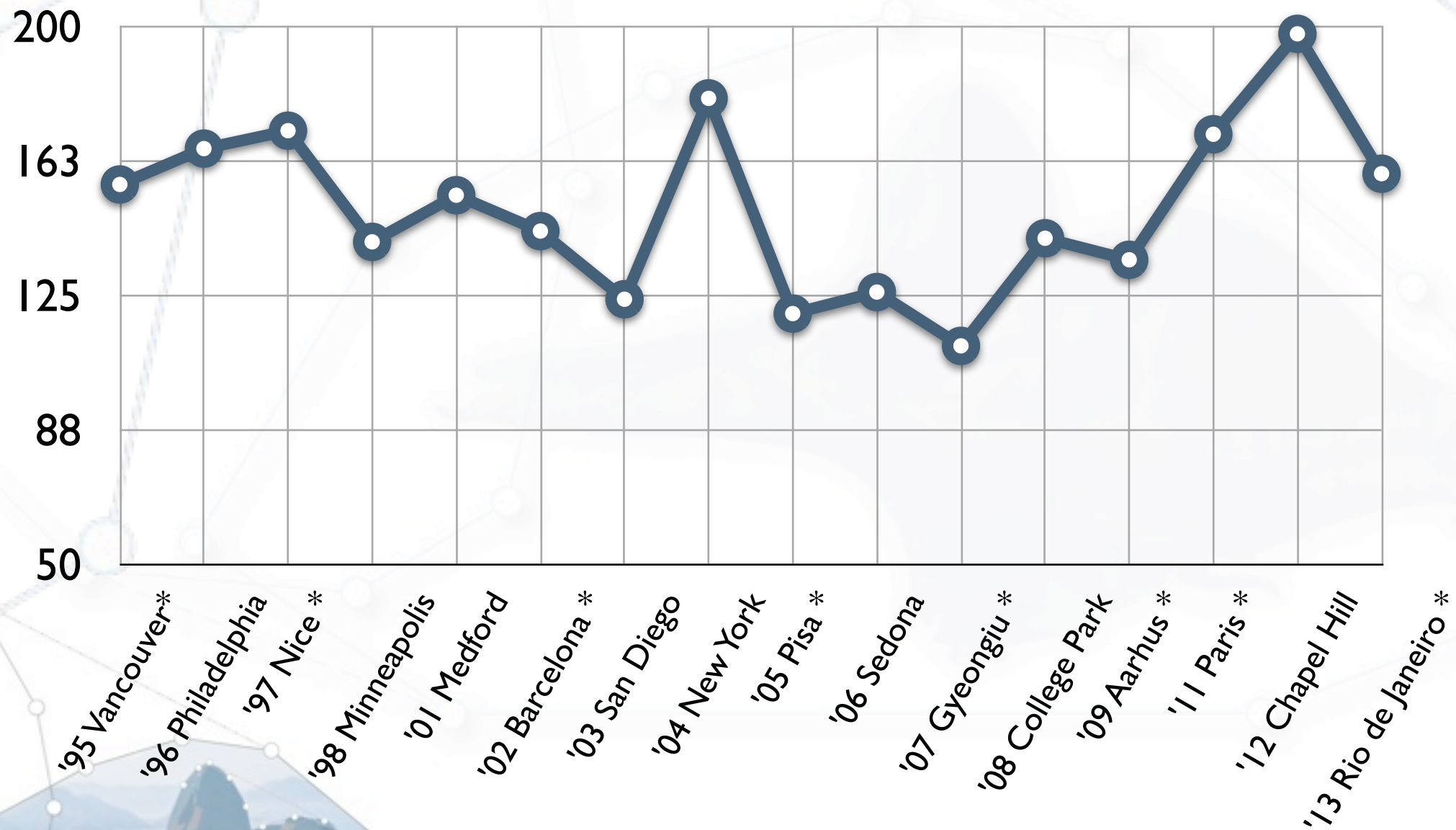
All donation and expenses for the CG:APT, saving SIG fees - *idem.*

participants / country

	St	Pr	+
Brazil	29	17	44
USA	17	25	42
Germany	1	12	13
France	2	8	10
Canada	2	3	5
Netherlands	1	3	4
Austria		3	3
Japan	1	2	3
Switzerland	2	1	3
Australia		2	2
Belgium	1	1	2
Chile	1	1	2

	St	Pr	+
Israel	1	1	2
Czech Republic		2	2
UK	1		1
Denmark		1	1
Greece		1	1
Hungary	1		1
Italy		1	1
Poland	1		1
Saudi Arabia		1	1
Spain		1	1
Sweden		1	1

participants / edition



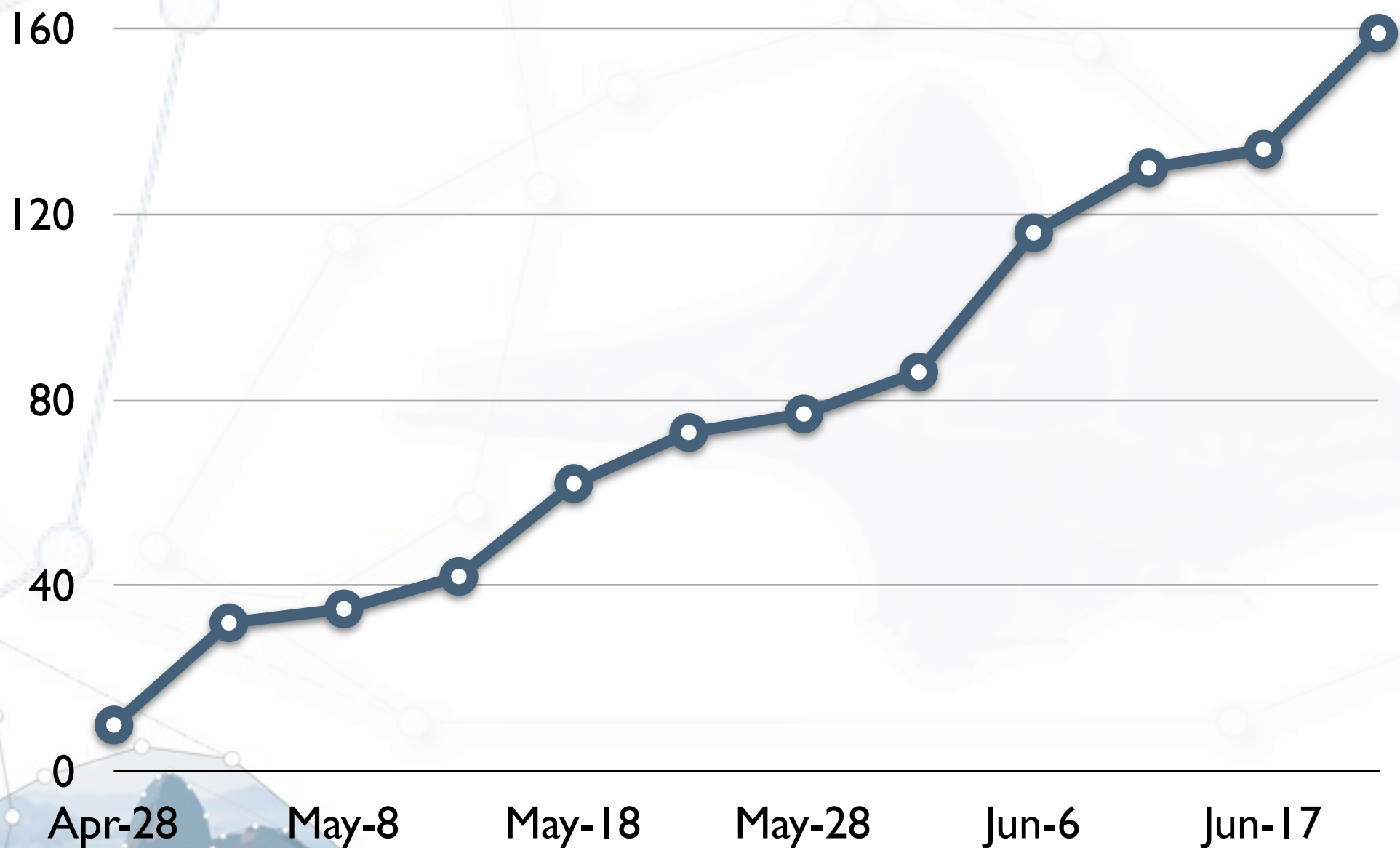
150 registered participants

students % / edition



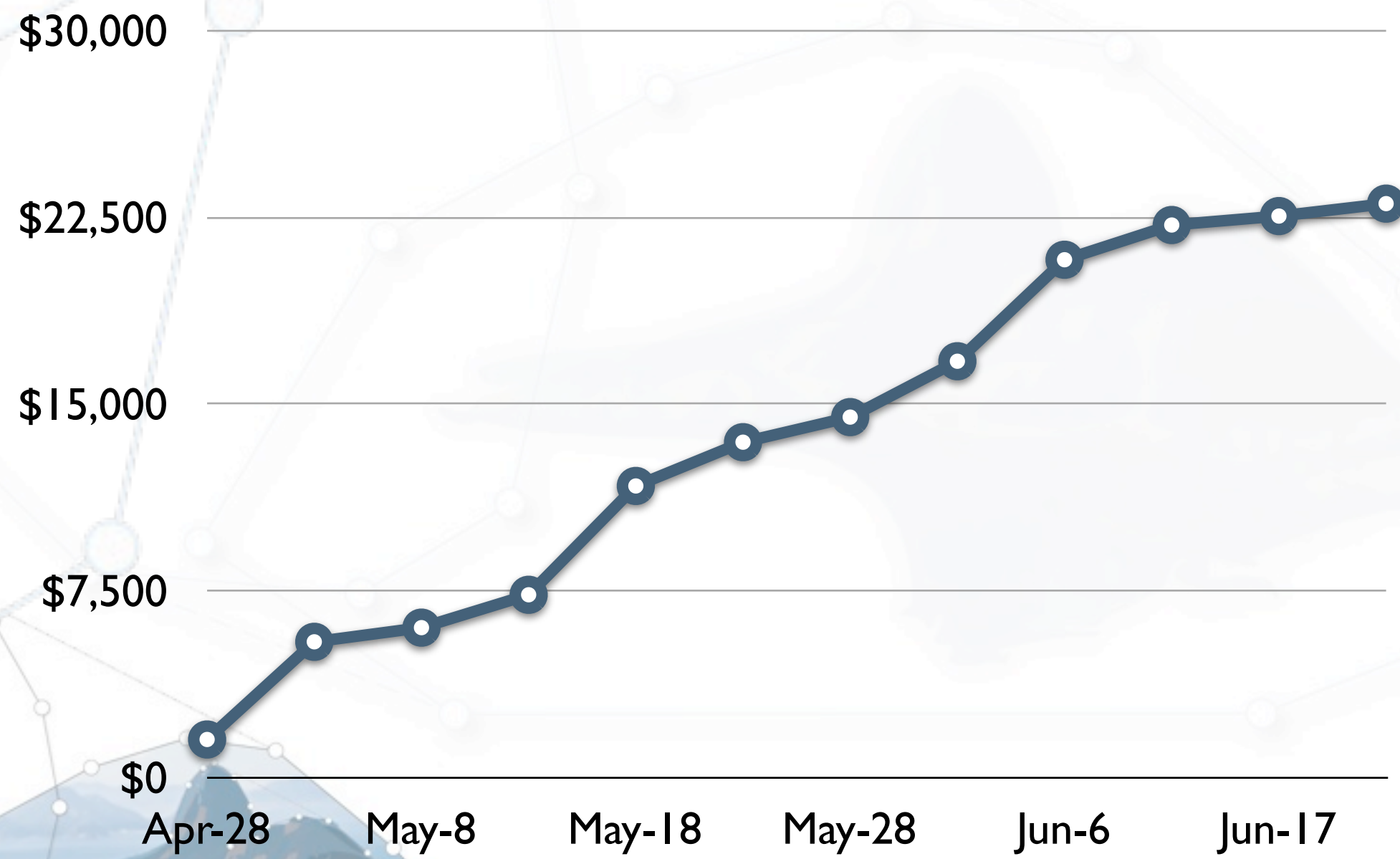
66 students (42%)

inscriptions / time



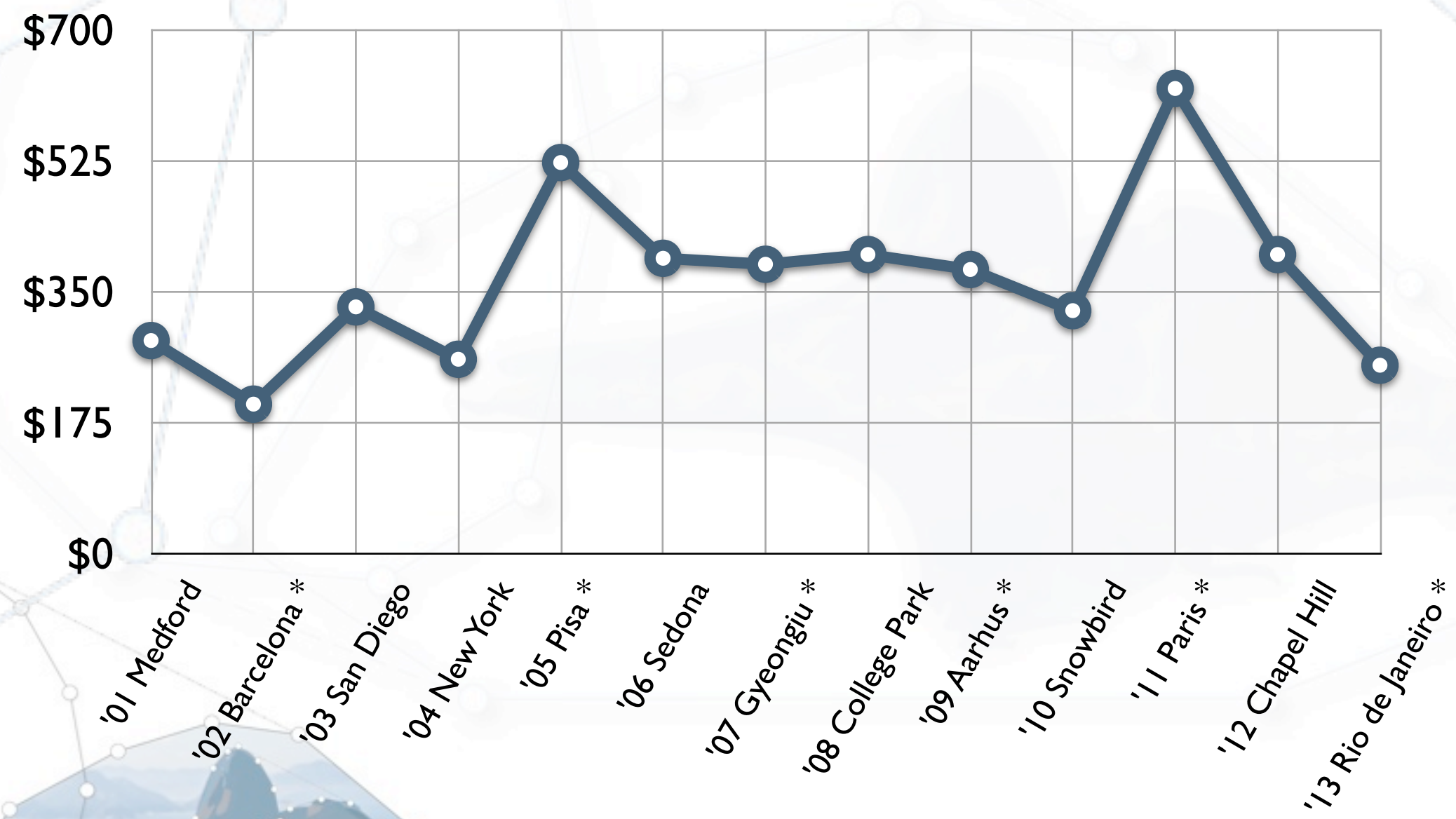
no early-bird registration: regular

\$ inscriptions / time



more students at the end

fee (prof) / edition



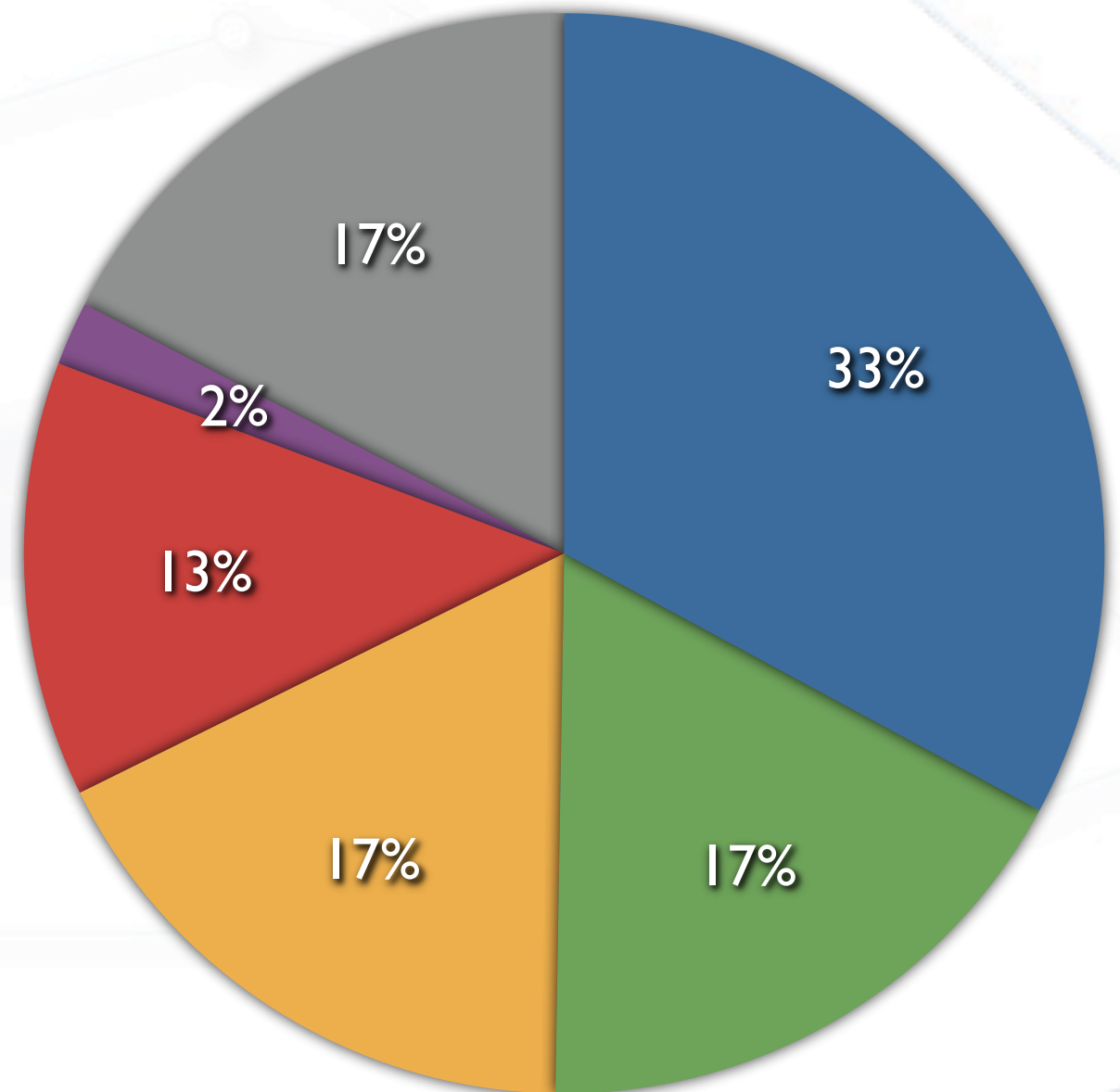
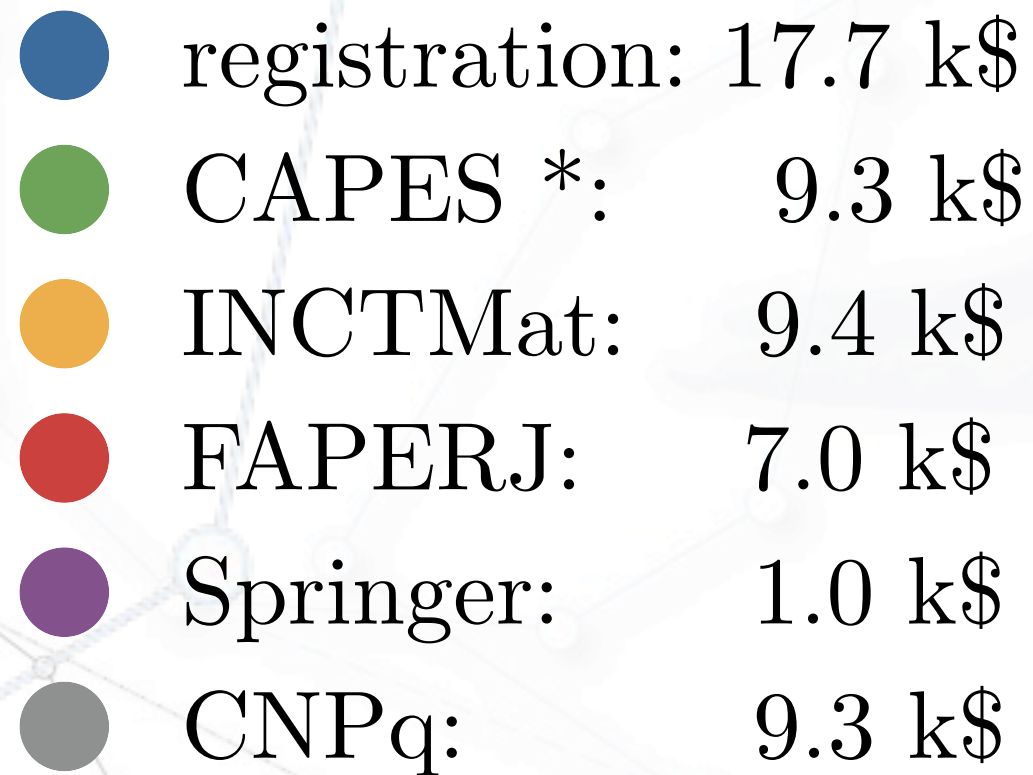
cheap SoCG (but not lunch)

fee (stud.) / edition



student fee = banquet cost + \$6 !

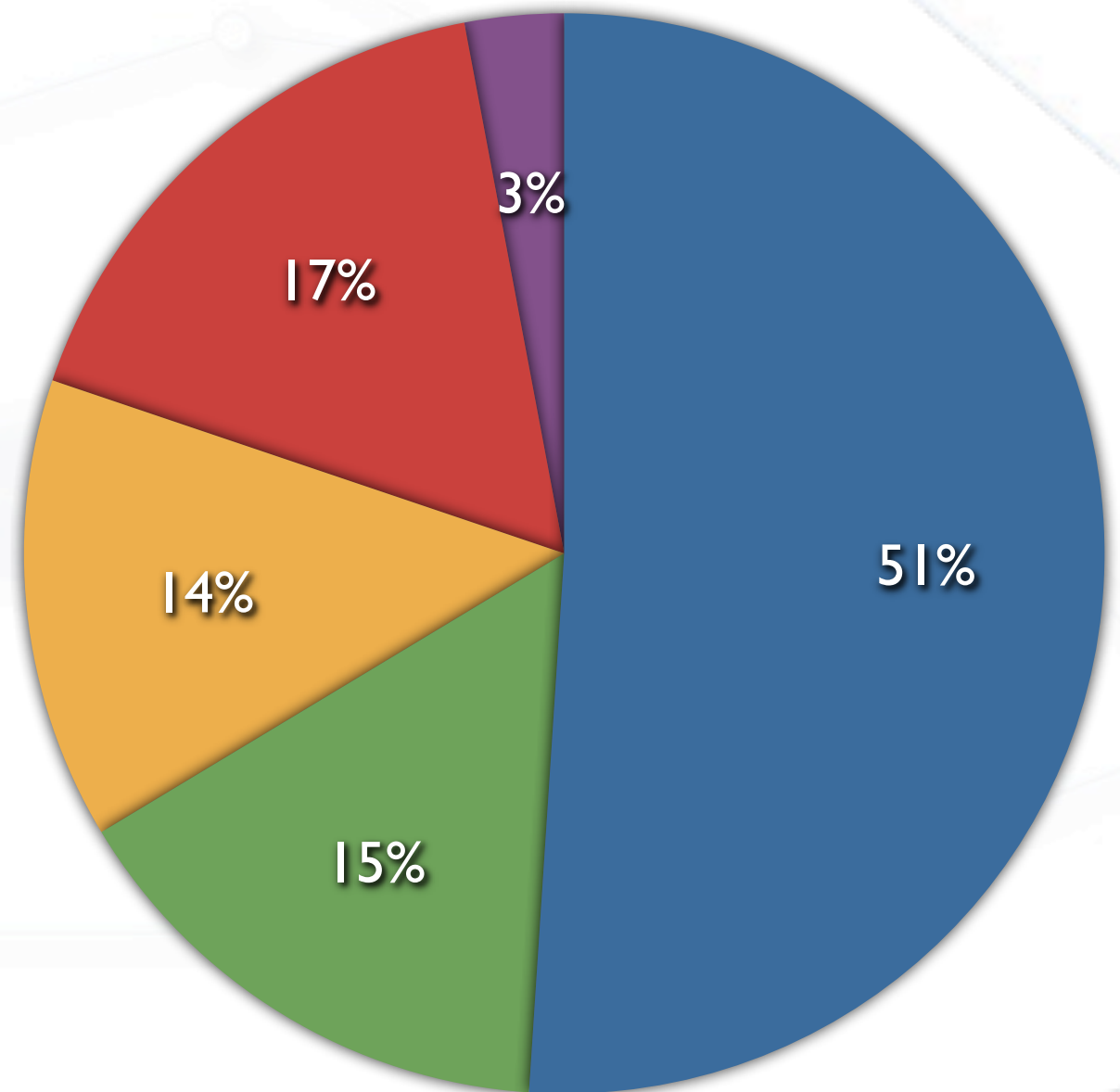
cg week *virtual* income



total cg week *virtual* income: 53.8 k\$

cg week income

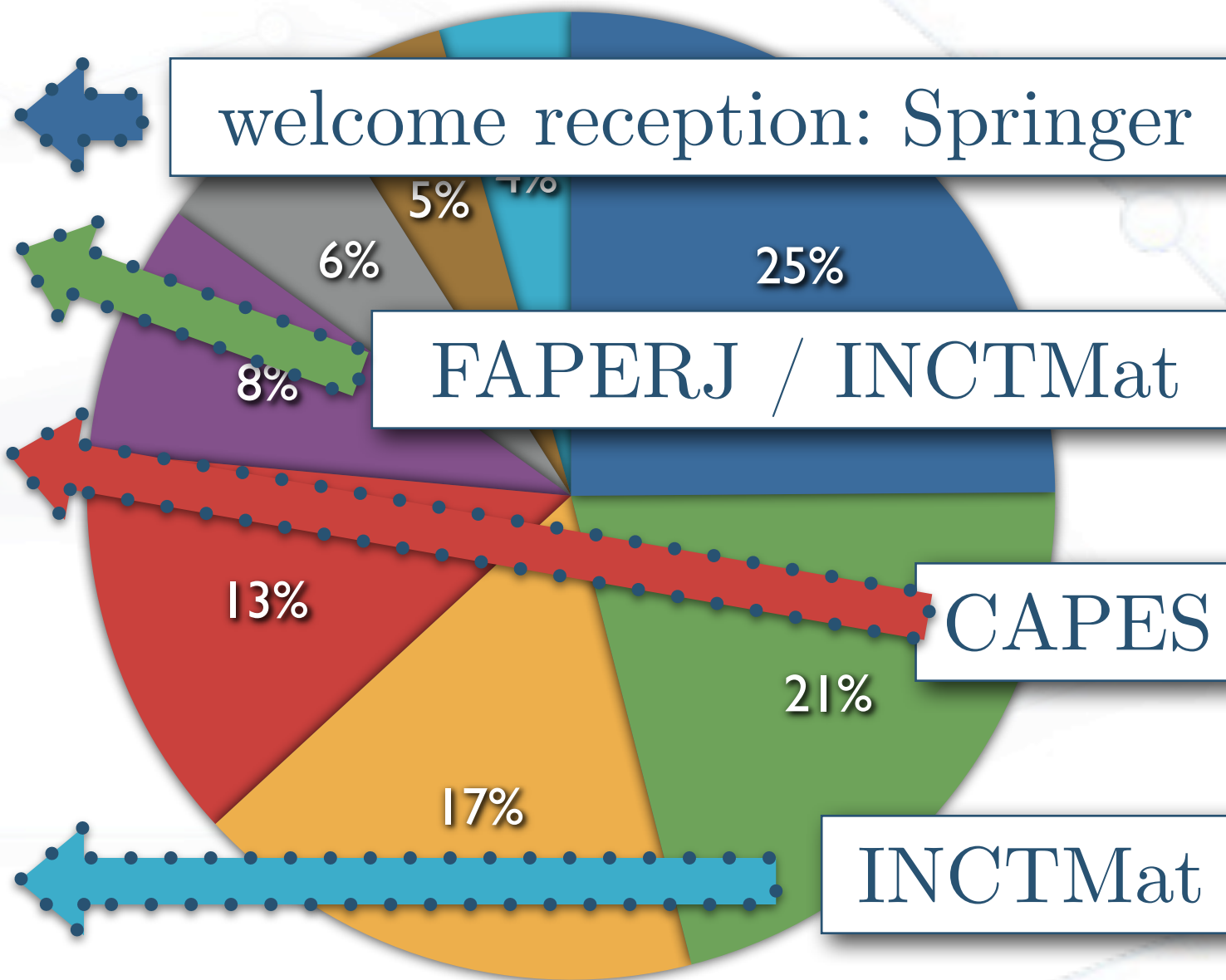
● registration:	17.7 k\$
● CAPES *:	5.3 k\$
● INCTMat:	4.8 k\$
● FAPERJ:	5.8 k\$
● Springer:	1.0 k\$
● CNPq:	0



total cg week income: 34.7 k\$

cg week expenses

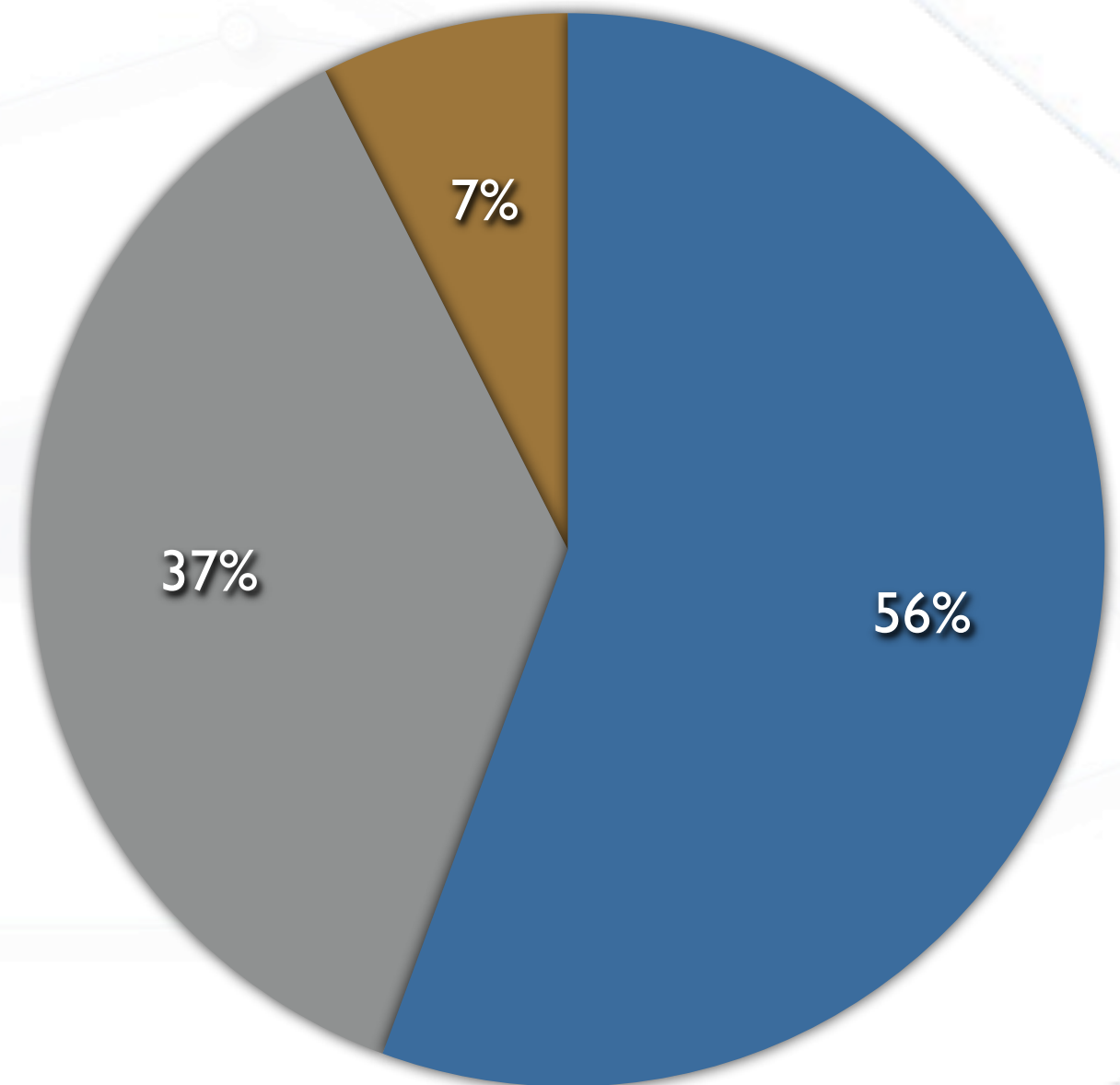
- food: 8.5 k\$
- speakers: 7.2 k\$
- banquet: 5.8 k\$
- bus: 4.5 k\$
- material: 2.9 k\$
- acm fees: 2.1 k\$
- admin: 1.6 k\$
- awards: 1.5 k\$



total cg week expenses: 33.9 k\$

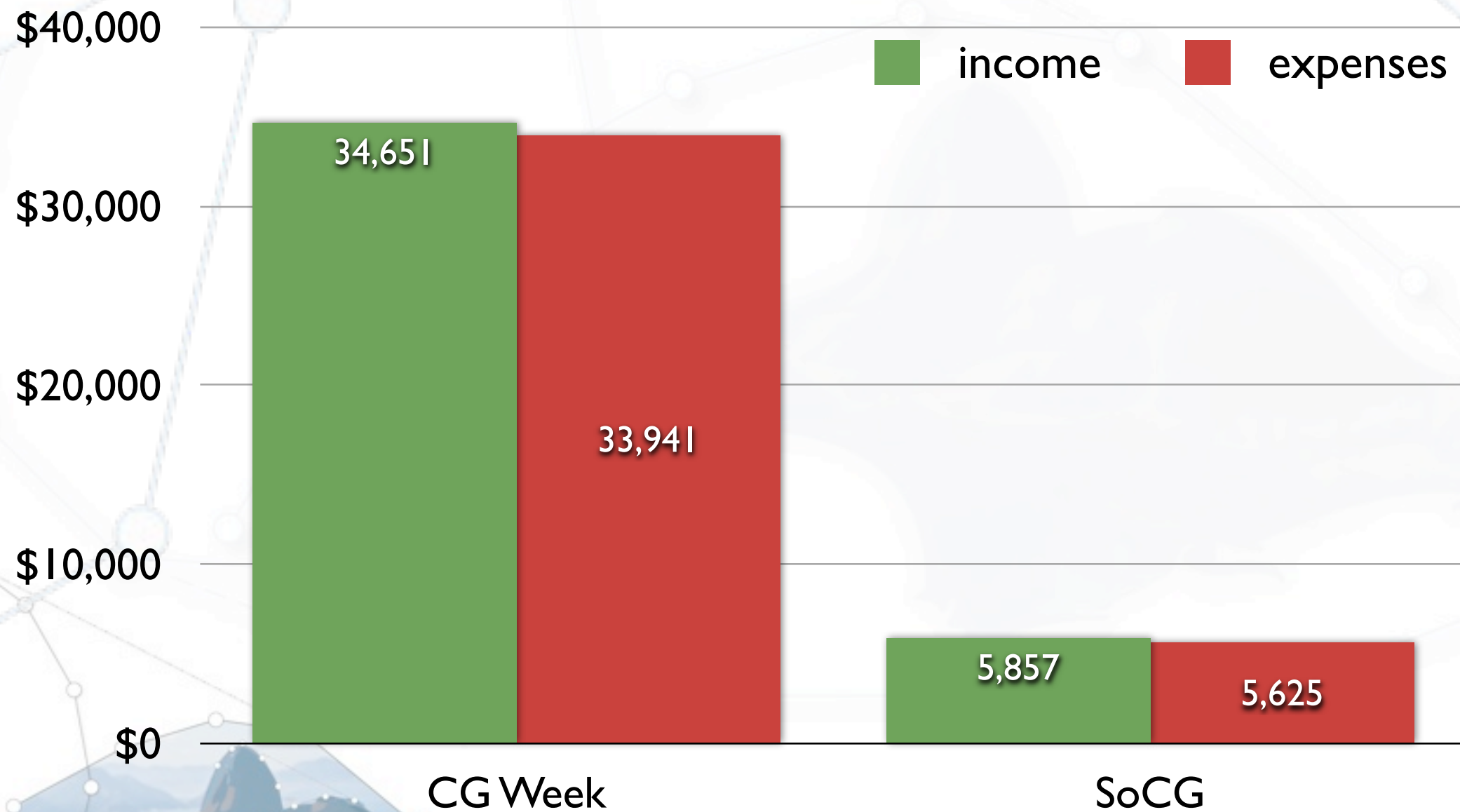
socg expenses

●	food:	3.1 k\$
●	speakers:	0 k\$
●	banquet:	0 k\$
●	bus:	0 k\$
●	material:	0 k\$
●	acm fees:	2.1 k\$
●	admin:	0.4 k\$
●	awards:	0 k\$



total socg expenses: 5.8 k\$

balance



margin: 709 \$ / 232 \$

enjoy the week!

merci!



SoCG 2013

Report of the PC chairs

Timothy Chan (University of Waterloo)

Rolf Klein (University of Bonn)

The PC

- Alexander I. Bobenko
- Kevin Buchin
- Timothy Chan
- Frederic Chazal
- Siu-Wing Cheng
- Otfried Cheong
- Alon Efrat
- Jie Gao
- Dan Halperin
- Sariel Har-Peled
- Matthew Katz
- Michael Kerber
- Rolf Klein
- Dmitriy Morozov
- Günter Rote
- Ileana Streinu
- Uli Wagner
- Carola Wenk
- Norbert Zeh

Submissions

- 162 abstracts
- 137 full papers (1 withdrawn)
- 48 accepted

2013 (Rio):	48/136	= 35 %
2012 (Chapel Hill):	44/124	= 35 %
2011 (Paris):	55/145	= 38 %
2010 (Snowbird):	47/145	= 32 %
2009 (Aarhus):	44/170	= 26 %
2008 (Washington):	42/127	= 33 %
2007 (Gyeongju):	45/139	= 32 %
2006 (Sedona):	54/138	= 39 %

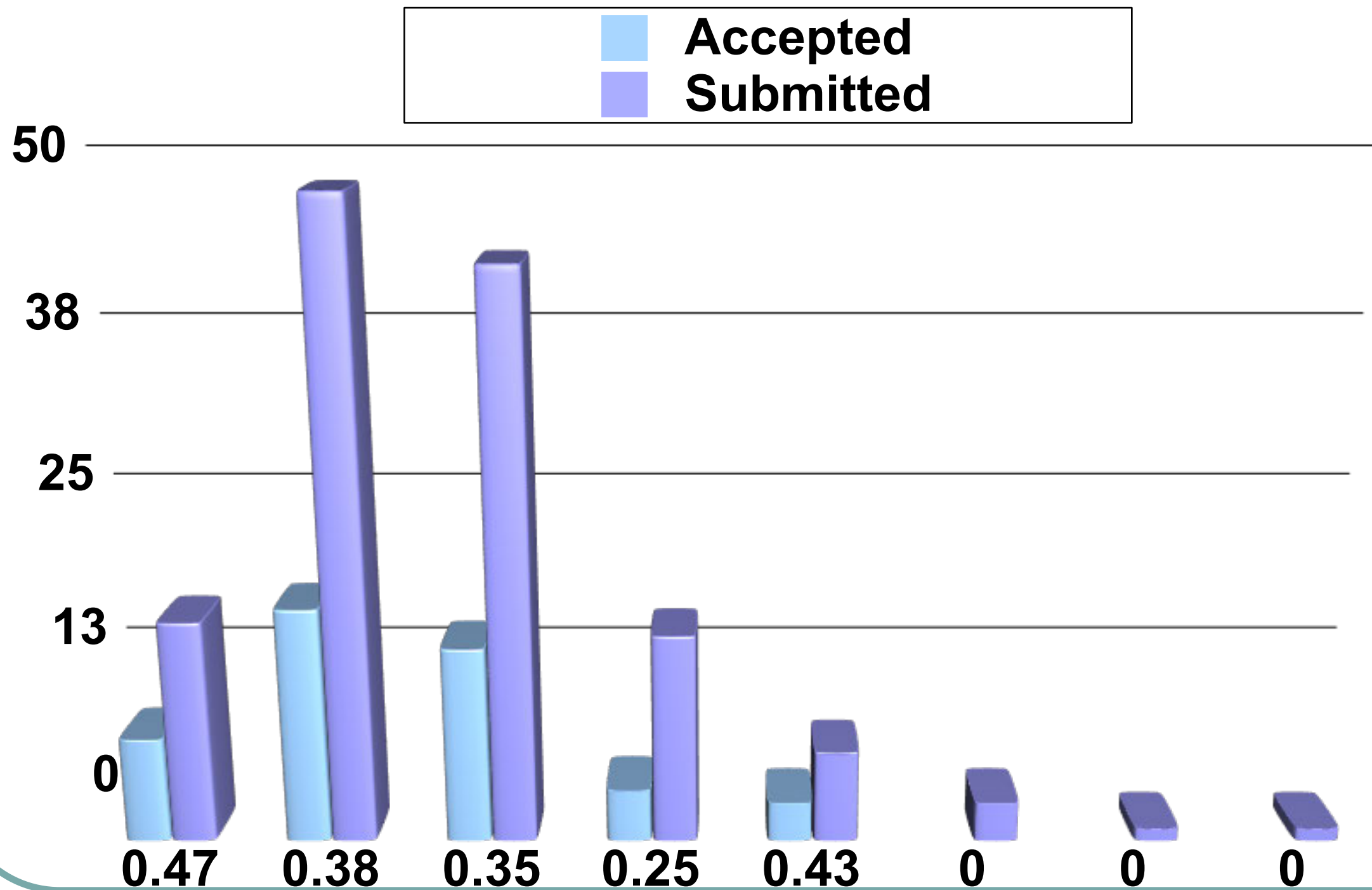
Process

- All done electronically through EasyChair
- Abstract submission: Nov 22
- Bidding: Nov 23 – Dec 3
- Paper submission: Dec 3
- Paper assignment: Dec 5
 - 3 per paper; 21 or 22 per PC member
- Initial review phase: Dec 5 – Jan 16
- Discussion phase: Jan 17 – Feb 15
- Notification: Feb 15
- Reviews sent: Feb 17

Process (II)

- 438 reviews (avg 3.2 per paper)
 - 304 external reviews from 220 subreviewers (but PC members are ultimately responsible for their own evaluations)
- plus 443 comments during discussion phase (avg 3.2 per paper)
 - 95 papers have ≥ 1 comment, 58 papers have ≥ 3 comments, 1 paper has 38 comments...

Statistics by # of authors



Statistics by country

country	submitted	accepted	rate
United States	57.68	23.28	0.4
France	12.67	5.83	0.46
Germany	8.22	2.5	0.3
Canada	7.97	2.5	0.31
Brazil	6.5	0.5	0.08
Netherlands	5.12	1.5	0.29
Israel	4.33	1.33	0.31
Greece	4	1	0.25
Switzerland	3.33	1.2	0.36
Poland	3	0	0
Australia	2.5	2.5	1
United Kingdom	2.2	2.2	1

Statistics by topics

topic	sub	accept	rate
geometric algorithms and data structures	83	28	0.34
discrete and combinatorial geometry	53	21	0.4
computational topology	29	10	0.34
implementation/experimental evaluation	26	6	0.23
mathematical, numerical, or algebraic issues	21	5	0.24
lower complexity bounds	16	4	0.25
novel algorithmic applications	13	5	0.38
robotics	8	2	0.25
discrete differential geometry	6	2	0.33
other	5	1	0.2

Awards

- follow last year's initiative
- Best paper award
 - nomination and discussion by the whole PC (decided on just 1 this year)
- Best student presentation award
 - to be decided by audience (remember to turn in your form before lunch tomorrow...)

We thank ...

- The whole PC
- The video chair and committee
- The local organizing committee
- The steering committees
- All external reviewers
- All submitters of papers
- All attendees
- The invited speakers Ken and Paco
- Alexander Gilbers
- Each other: Timothy ↔ Rolf

Best paper award goes to ...

- Victor Alvarez and Raimund Seidel, "A Simple Aggregative Algorithm for Counting Triangulations of Planar Point Sets and Related Problems"

PC Report

22nd Videos & Multimedia

Alex Kröller
@ SoCG 2013 Business Meeting

Kevin Buchin (TU Eindhoven)

Sándor Fekete (TU Braunschweig)

Joachim Giesen (FSU Jena)

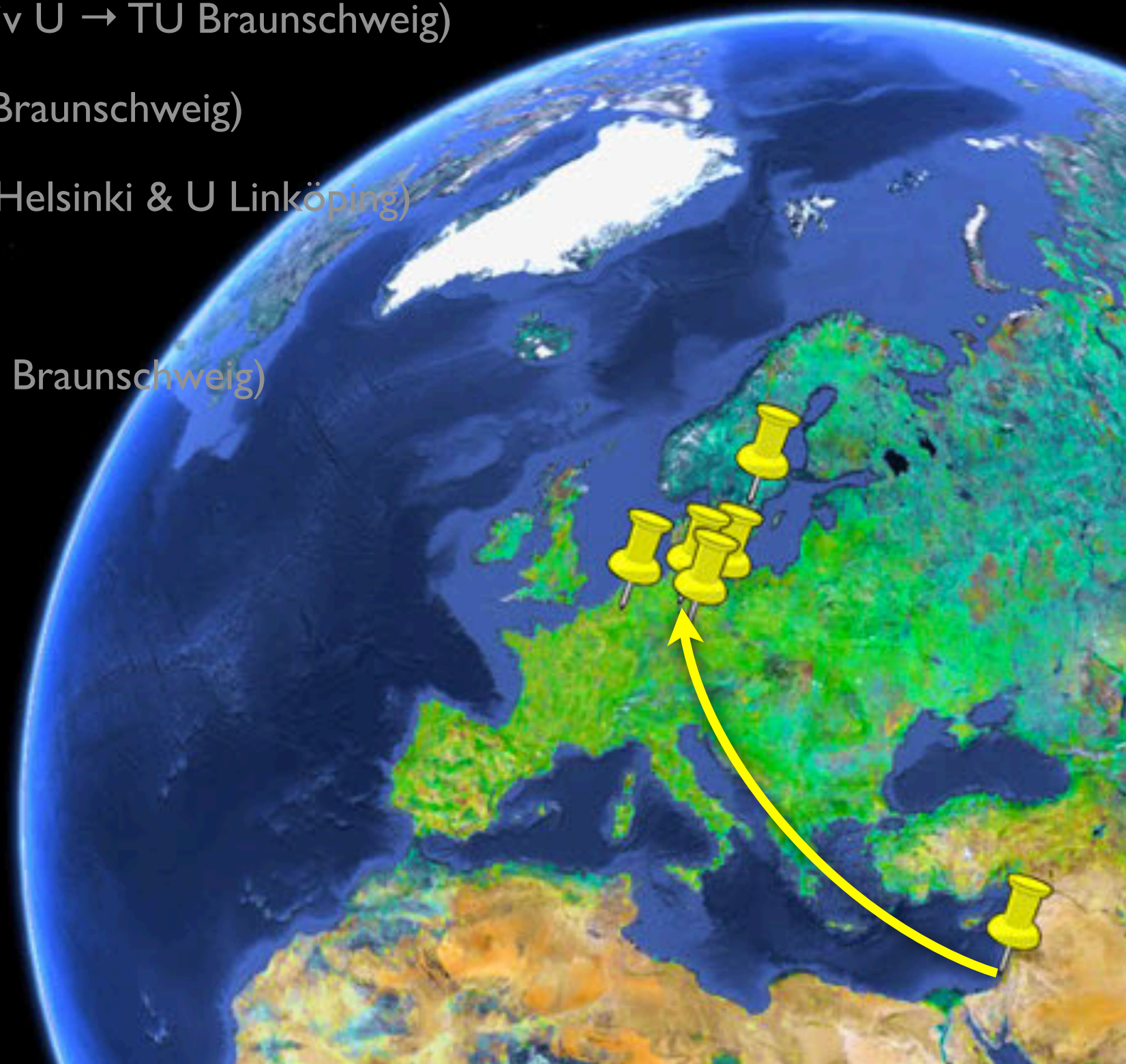
Michael Hemmer (Tel Aviv U → TU Braunschweig)

Alexander Kröller (TU Braunschweig)

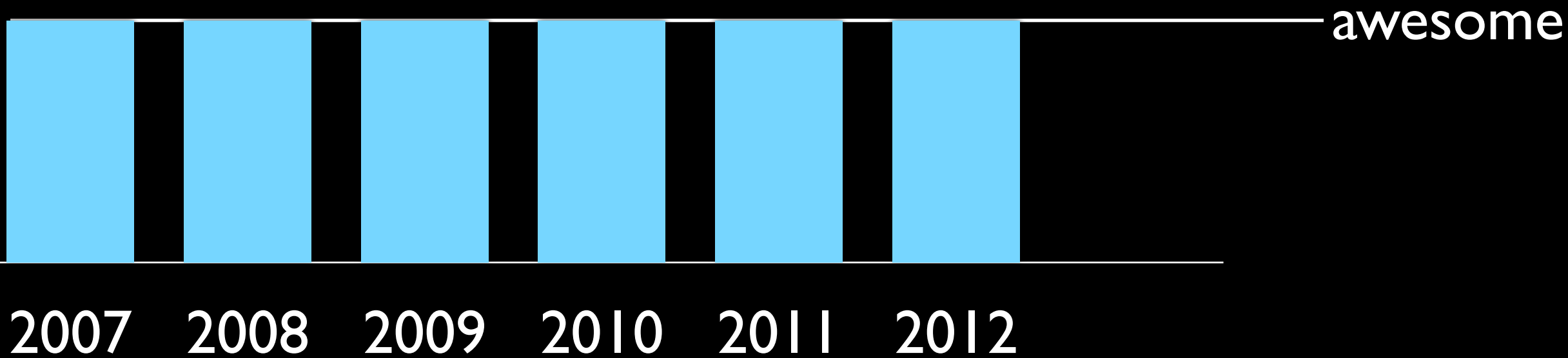
Valentin Polishchuk (U Helsinki & U Linköping)

Günter Rote (FU Berlin)

Christiane Schmidt (TU Braunschweig)

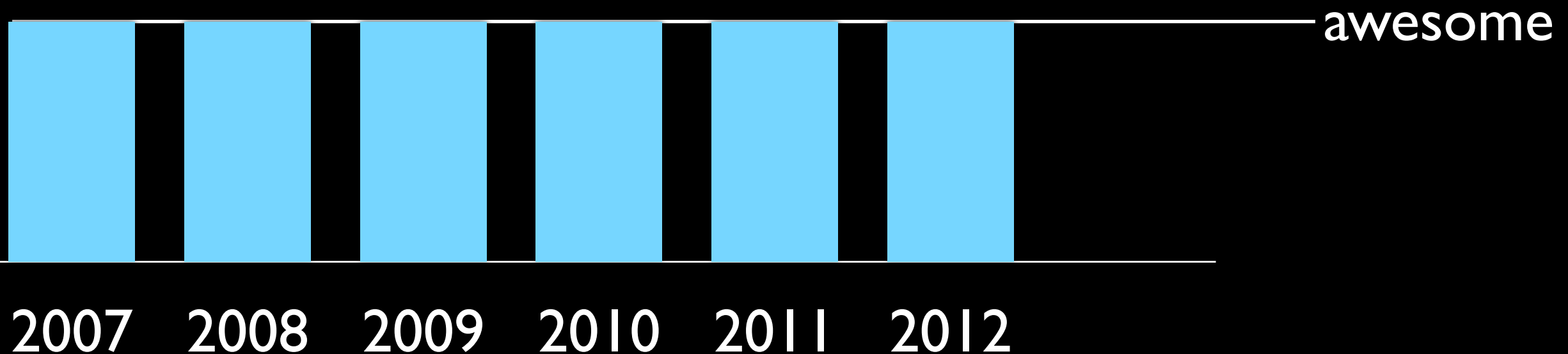


Quality



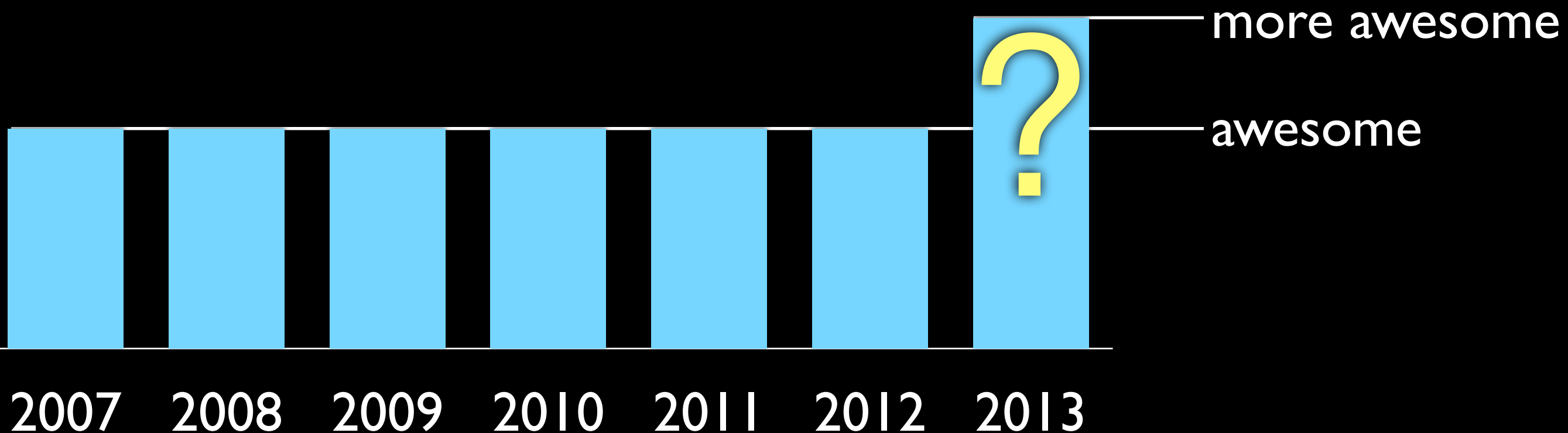
Goals

- Increase artistic quality:
Encourage educational/artistic videos
(no “recorded powerpoint”)
- Increase technical quality
- Get rid of video format zoo



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Video and multimedia presentations are sought for the 22nd Annual Video and Multimedia Review of Computational Geometry, to accompany the 29th Annual Symposium on Computational Geometry. This review showcases the use of visualization in computational geometry for exposition and education, for visual exploration of geometry in research, and as an interface and a debugging tool in software development. Algorithm animations, visual explanations of structural theorems, descriptions of applications of computational geometry, and demonstrations of software systems are all appropriate. There are no limitations on creativity, anything that leverages the possibilities of multimedia to enlighten and entertain the viewer while learning about computational geometry will do. This includes rendered animation, films with narrators and/or actors, and interactive stories. We seek submissions of high quality, judged by how well they exploit the creative possibilities of their respective formats. That is, a screencast of a powerpoint presentation with some voice-over will hardly do.

For videos, three to five minutes is usually ideal; ten minutes is the upper limit. For the final version, we require video in 720P or better, using H.264. The audio stream should be AAC, better quality (e.g., dts) is fine. Videos have to be uploaded to YouTube (720P or better) for reviewing, to ensure all the PC can play them.

For other content, there can be no guidelines on how to submit. Interactive applications (e.g., Flash, AIR, Java, etc.) should provide a "demo" mode where they run by themselves. They should be submitted as a distributable package. It is advisable to contact the Video/MM PC chair well in advance to discuss your idea and how it could be reviewed, presented, and distributed.

Each submission should include a two-page description of the material shown in the presentation, and where applicable, the techniques used in the implementation. The final two-page descriptions must be formatted according to the guidelines for proceedings. LaTeX style files will be provided to authors of accepted presentations.

Submission

Video submissions must be uploaded to YouTube. Mark the video as "unlisted". That way, the PC can evaluate it, but it will not be visible to the general public.

Send a mail to the Video/MM committee chair, Alexander Kroeller <a.kroeller@tu-bs.de> by February 18, 2013, 23:59 (Anywhere on Earth), with the following information: the names and institutions of the authors, the email address of the corresponding author, the link to the YouTube video, and the PDF abstract.

We explicitly encourage video/multimedia submissions that support papers submitted to the Symposium. Submitted papers and associated video/multimedia submissions will be treated entirely separately by the respective committees: acceptance or rejection of one will not influence acceptance or rejection of the other.

Authors will be notified of acceptance or rejection, and given reviewers' comments, by March 10, 2013. For each accepted submission, the final version of the 2-page textual description will be due by March 22, 2013 for inclusion in the proceedings. Final versions of accepted video/multimedia presentations will be due April 26, 2013.

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For video quality

For other submissions

Each submission description

Submit

Video

Send a letter to your institution

We expect separate

Author due by

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For other content, there can be no guidelines on how to submit. Submitted as a distributable package. It is advisable to contact the chair.

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Submission

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For other content, submitted as a distribution.

Each submission should have a short description. Descriptions must be

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Submissions

Video submissions

Send a submission

institution

“Videos have to be uploaded to YouTube (720P or better)”

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2/15 Paper notification

2/18 Video/MM submissions due

6 submissions: 4 videos (2 PC), 1 tool, 1 video+tool

3/10 Video/MM notification

3/22 Camera-ready abstracts due

4/26 Final videos due

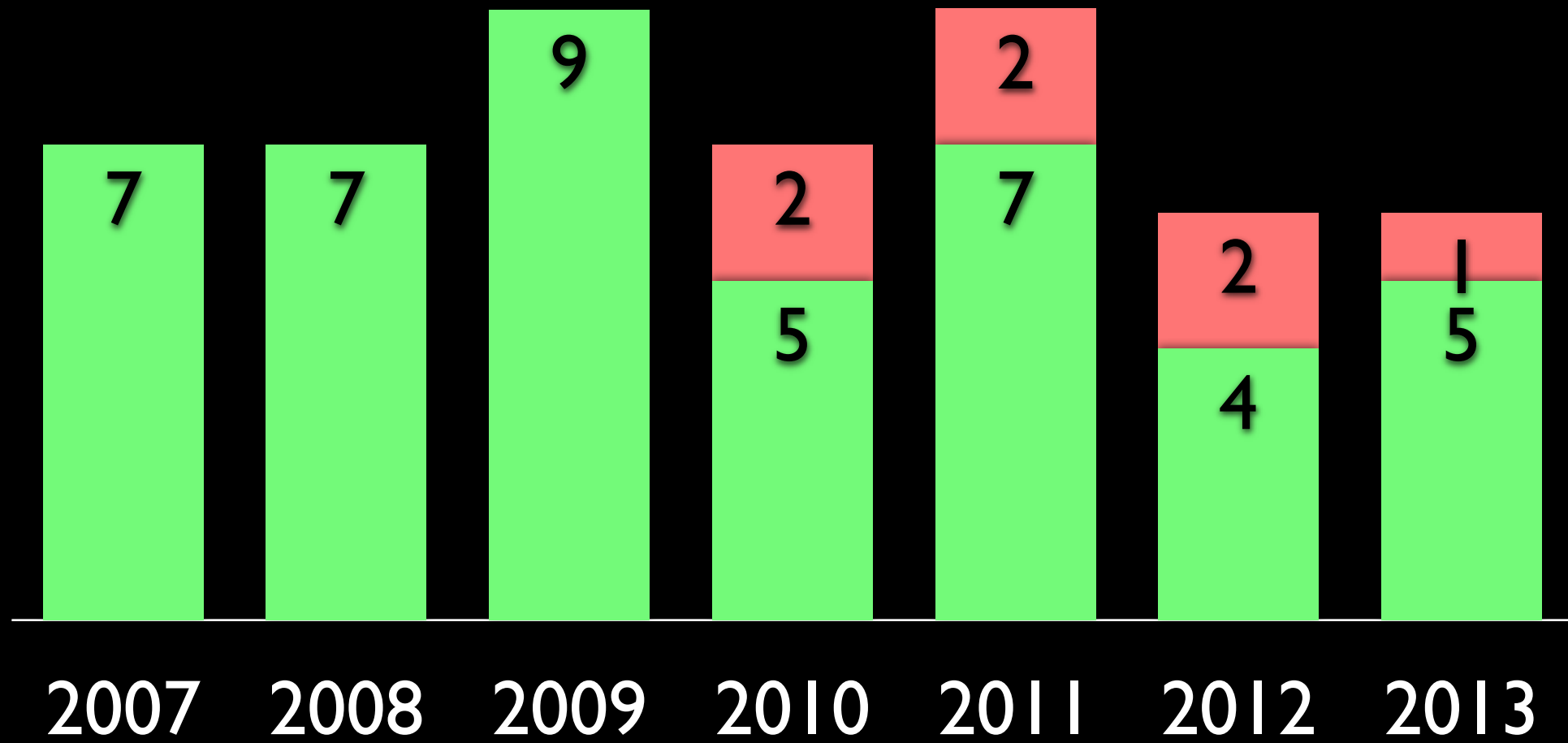
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6 submissions: 4 videos (2 PC), 1 tool, 1 video+tool
- 2/22 PC meeting in Braunschweig
6 PC members physically present, 2 via Skype
Valentin Polishchuk chairs PC-authored videos
4 “accept”, 1 “maybe”, 1 “reject”
- 3/10 Video/MM notification
- 3/22 Camera-ready abstracts due
- 4/26 Final videos due

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4 “accept”, 1 “maybe”, 1 “reject”
- 2/26 Change requests to “maybe” video
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- 2/26 Change requests to “maybe” video
- 3/03 4x prelim notification with change requests
- 3/10 Video/MM notification
- 3/22 Camera-ready abstracts due
- 4/26 Final videos due

- 2/15 Paper notification
- 2/18 Video/MM submissions due
6 submissions: 4 videos (2 PC), 1 tool, 1 video+tool
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Valentin Polishchuk chairs PC-authored videos
4 “accept”, 1 “maybe”, 1 “reject”
- 2/26 Change requests to “maybe” video
- 3/03 4x prelim notification with change requests
- 3/09 Decide to accept updated “maybe” video
- 3/10 Video/MM notification
- 3/22 Camera-ready abstracts due
- 4/26 Final videos due

Submissions



 rejected
 accepted

Accepted Videos

Gill Barequet; Mira Shalah

Polyominoes on Twisted Cylinders

Justin Stoecker; Victor Milenkovic

Interactive Visualization of 3D Configuration Spaces

Ivaylo Ilinkin

Parametric Search Visualization

*Sándor P. Fekete; Alexander Kröller, SeoungKyou Lee; James McLurkin;
Christiane Schmidt*

Triangulating Unknown Environments using Robot Swarms

*Dorit Borrmann; Pedro J. de Rezende; Cid C. de Souza; Sándor P. Fekete;
Stephan Friedrichs; Alexander Kröller; Andreas Nüchter; Christiane Schmidt;
Davi C. Tozoni*

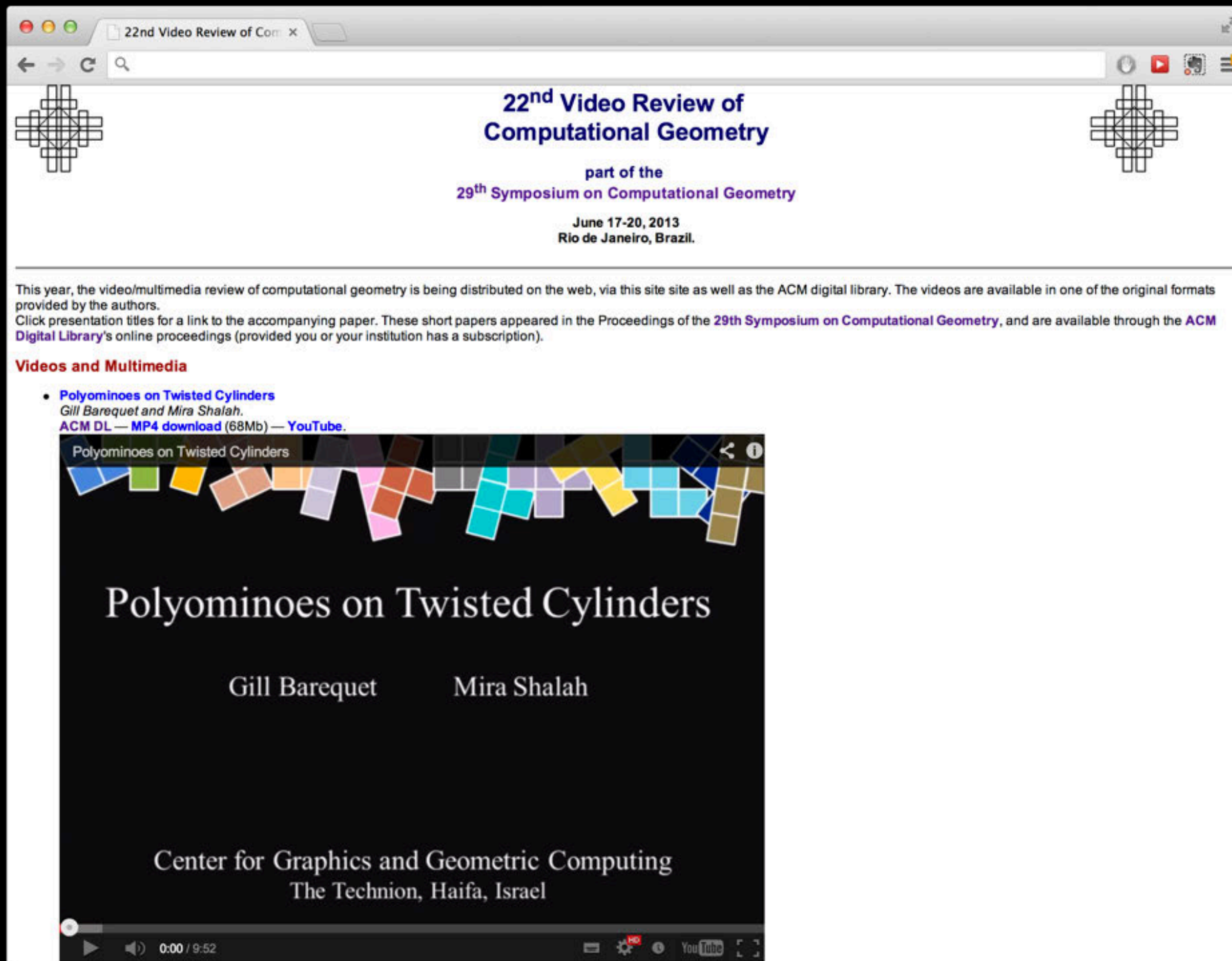
Point Guards and Point Clouds: Solving General Art Gallery Problems

Dissemination & Exploitation

a.k.a. “Look where your video could appear and how many people would see it. Why not submit something artsy next year?”

Proceedings on computational-geometry.org

NEW: Embedded YouTube videos



22nd Video Review of Computational Geometry

part of the
29th Symposium on Computational Geometry

June 17-20, 2013
Rio de Janeiro, Brazil.

This year, the video/multimedia review of computational geometry is being distributed on the web, via this site as well as the ACM digital library. The videos are available in one of the original formats provided by the authors.
Click presentation titles for a link to the accompanying paper. These short papers appeared in the Proceedings of the 29th Symposium on Computational Geometry, and are available through the [ACM Digital Library](#)'s online proceedings (provided you or your institution has a subscription).

Videos and Multimedia

- [Polyominoes on Twisted Cylinders](#)
Gill Barequet and Mira Salah.
[ACM DL](#) — [MP4 download](#) (68Mb) — [YouTube](#).

Polyominoes on Twisted Cylinders

Polyominoes on Twisted Cylinders

Gill Barequet Mira Salah

Center for Graphics and Geometric Computing
The Technion, Haifa, Israel

0:00 / 9:52

NEW: Videos in the ACM Digital Library,
also on the proceedings DVD.
(Copyright still with authors)



NEW: Videos (3/5) on IMAGINARY.org, a virtual (and real) exhibition of beautiful maths.

IMAGINARY | open mathematics

search

Get Access

IMAGINARY

open mathematics

explore interact think more

interact think more

Permanent Events

SURFER at the MoMath
Since Dec. 15, 2012

IMAGINARY at EXPERIMINTA in Frankfurt
Since Jun. 6, 2013

Interactive, creative and beautiful maths!

Second ESMA Conference in Cagliari
Sep. 18, 2013 to Sep. 20, 2013

more

Triangulating Unknown Environments using Robot Swarms

Credits

Presented by the 22nd Annual Video and Multimedia Review of Computational Geometry.

Scientific Authors
Aaron Becker
Sándor P. Fekete
Alexander Kröllner
Seoung Kyou Lee
James McLurkin
Christiane Schmidt

imaginary.org

0:00 / 8:47

NOT NEW: Elsevier offer to turn accepted (best?) videos into a CGTA special issue.

⊕ more visibility

⊕ more reward

⊖ Elsevier

⊖ content unclear (video becomes paper?)

Killer con:

⊖ PC (& PC chair) author of two videos

⇒ **Next Year?**

Tomorrow 2:30 pm – don't miss it!



Imaginary (CC) Mathematisches Forschungsinstitut
Oberwolfach, Klaus Tschira Stiftung
Earth (C) Google Earth™
Popcorn (CC) Csizmadia Tamás

CG Week 2013 workshop committee

- ▶ **Jean-Daniel Boissonnat** (chair, INRIA Sophia Antipolis)
- ▶ Jeff Erickson (UIUC)
- ▶ Bernd Gärtner (ETH Zürich)
- ▶ Luiz Henrique de Figueiredo (IMPA)
- ▶ Rolf Klein (Bonn)
- ▶ Joe Mitchell (Stony Brook)
- ▶ Valerio Pascucci (Utah)
- ▶ Bettina Speckmann (TU Eindhoven)
- ▶ Yusu Wang (Ohio State)

- ▶ 3 proposals submitted
- ▶ 3 proposals accepted
 - Some potential organizers were afraid speakers wouldn't travel to Rio just to give a workshop talk.

CG Week 2013 Young Researcher Forum

- ▶ Jean-Daniel Boissonnat (INRIA Sophia Antipolis)
- ▶ Erin Chambers (Saint Louis)
- ▶ Sándor Fekete (TU Braunschweig)
- ▶ Danny Halperin (Tel Aviv)
- ▶ Michael Hoffmann (ETH Zürich)
- ▶ Maarten Löffler (Utrecht)
- ▶ David Mount (Maryland)
- ▶ Bettina Speckmann (chair, TU Eindhoven)

- ▶ 12 abstracts submitted
- ▶ 12 abstracts accepted
 - The reviewing/revision cycle was important!

SOCG steering committee (2009–2012)

- ▶ Mark de Berg, secretary (TU Eindhoven)
- ▶ Joe Mitchell (Stony Brook)
- ▶ Günter Rote (FU Berlin)
- ▶ Jack Snoeyink, chair (North Carolina)
- ▶ Monique Teillaud (INRIA Sophia Antipolis)

CG Week 2014



SOCG 2014 IN KYOTO, JAPAN

The 30th ACM Symposium on Computational Geometry

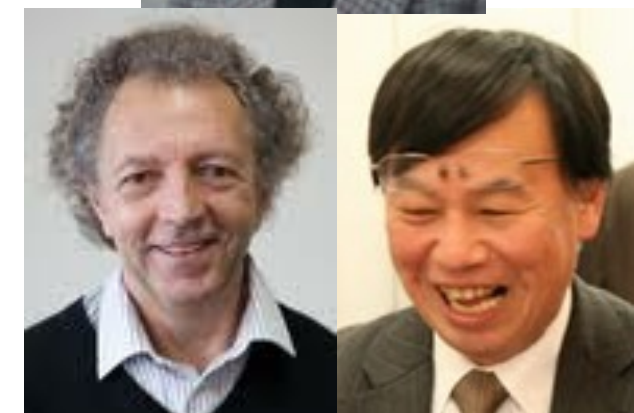
BASIC INFORMATION

- Place: Kyoto, Japan
- Date : June 8(Sun)-11(Wed)
- Venue: Kyoto University Centennial Memorial Hall



- Local organizers:

- Tetsuo Asano (JAIST)
- David Avis (Kyoto, McGill)
- Naoki Katoh (Kyoto)
- Takeshi Tokuyama (Tohoku)



- PC Chairs

Siu-Wing Cheng(HKUST), Olivier Devillers(INRIA)



KYOTO CITY

- The old capital (794-1603) of Japan
- A very attractive city to visit
 - City with old Japanese atmosphere
 - 17 UNESCO world heritage sites
 - Good foods, excellent transportation
 - Comfortable to stay (I was born there)





**SOCG
Venue**
































17 UNESCO world heritage sites in Kyoto



CLIMATE OF JUNE IN KYOTO

京都(京都)の過去天気(2012年6月)

2008年		2009年		2010年		2011年		2012年		2013年	
1月	2月	3月	4月	5月	6月	7月	8月	9月	10月	11月	12月
日	月	火	水	木	金	土	日	月	火	水	木
27	28	29	30	31	1	2	3	4	5	6	7
					 曇 28°C/18°C	 曇 26°C/17°C					
8	9	10	11	12	13	14	15	16	17	18	19
 曇 25°C/20°C	 晴 29°C/16°C	 曇 23°C/20°C	 晴 28°C/20°C	 晴 30°C/18°C	 晴 29°C/19°C	 曇 22°C/19°C					
10	11	12	13	14	15	16	17	18	19	20	21
 晴 25°C/19°C	 曇 27°C/18°C	 曇 22°C/19°C	We had record high 38° C this June		 晴 31°C/19°C	 晴 27°C/20°C	 雨 24°C/20°C				
17	18	19	20	21	22	23	24	25	26	27	28
 晴 28°C/22°C	 曇 30°C/21°C	 曇 25°C/22°C	 曇 27°C/22°C	 雨 21°C/19°C	 晴 25°C/19°C	 晴 27°C/17°C					
24	25	26	27	28	29	30	1	2	3	4	5
 曇 27°C/18°C	 曇 29°C/19°C	 晴 27°C/21°C	 曇 26°C/20°C	 曇 24°C/21°C	 晴 32°C/19°C	 曇 29°C/22°C					

VENUE & ACCOMMODATION

- Kyoto University
 - 2nd oldest university in Japan
- Centennial memorial hall
 - At the main gate of the main campus
- Main Hall (1st floor)
- 3-separable classroom (2nd floor)
 - Workshops and YRF
- Accommodation
 - Many hotels in Kyoto city
 - 5,000 –10,000 yen
 - 10-20 min by public transportation
 - Japanese style “Ryokan”
 - Kyoto style classic house “Machiya”
 - Good for group stay



○ Travel

-  Kansai airport is the international airport near Kyoto
 - Many flights from Europe, Asia, North America
 - Airfare: \$700 from San Francisco (Delta) and Frankfurt (KAL)
70 min by train or 80 min by airport limousine bus
(comfortable)
-  Osaka airport (domestic)
Connection at Narita airport
50 min by limousine bus
- From Tokyo
 - bullet train takes 2 hours 20 min.
- One may also use Chubu airport



Sponsors

- ACM (in cooperation) SIGACT, SIGGRAPH
- Tohoku University
- Kyoto University

• 1

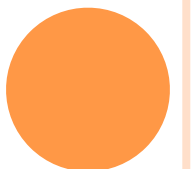


•



ERATO
Large Graph Project

- ◆ Limited support for travel of students available.



GEOMETRY IN KYOTO



Come to SOCG
in Kyoto.
We need many
participants.



SOCG 2014 program committee

- ▶ Hee-Kap Ahn (POSTECH)
- ▶ Peyman Asfshani (MADALGO/Aarhus)
- ▶ Benjamin Burton (Queensland)
- ▶ Erin Chambers (Saint Louis)
- ▶ **Siu-Wing Cheng** (co-chair, HKUST)
- ▶ Ken Clarkson (IBM Almaden)
- ▶ Vin de Silva (Pomona College)
- ▶ **Olivier Devillers** (co-chair, INRIA)
- ▶ Xavier Goaoc (Paris-Est)
- ▶ Michael Hemmer (Braunschweig)
- ▶ Christian Knauer (Bayreuth)
- ▶ Joe Mitchell (Stony Brook)
- ▶ Vera Sacristán (Catalunya)
- ▶ Shakhar Smorodinsky (Ben-Gurion)
- ▶ Tiow-Seng Tan (Natl U Singapore)
- ▶ Shinichi Tanigawa (Kyoto)
- ▶ Kasturi Varadarajan (Iowa)
- ▶ Stephanie Wuhrer (Saarland)

Announcements

Journal of the ACM

Starting **in 2013**, Best Paper Award winners will be invited to submit full papers to *JACM*.

- ▷ Joining STOC, FOCS, CAV, LICS, PODC, PODS, POPL, SODA*, CCC*, ...
- ▷ Usual review process; no guarantee of acceptance
- ▷ Accepted papers will appear in special “Invited Article” section
- ▷ Thanks to **Jean-Daniel Boissonat** and the *JACM* editorial board

NSF travel support

Starting **in 2014**, we expect to offer travel support for US students and postdocs.

- ▶ Joining STOC, FOCS, SODA, CCC,
- ▶ Limited to students and postdocs at US institutions
- ▶ Priority for co-authors and Young Researcher Forum speakers
- ▶ \$20K support requested for 2014
- ▶ Thanks to **Dmitry Maslov** at NSF



Proposal: Have the SoCG Steering Committee also act as the Steering Committee for *JoCG*

- ▷ Steering committee to make policy decisions for *JoCG* such as
 - special issues
 - quality guidelines
 - purchase of DOIs

- ▷ *JoCG* is a community-run journal

- ▷ SoCG Steering Committee is elected by the community

Proposal: Direct some selected papers from SoCG to a special issue of *Journal of Computational Geometry (JoCG)*

- ▷ An open access option
- ▷ Fits well with move to LIPIcs
- ▷ SoCG/SODA-level is the official standard for *JoCG*
- ▷ Can be done in conjunction with any other special issues

Colocation with STOC 2016

- ▶ Proposed by Paul Beame (SIGACT chair)
 - ▷ *Much* lighter arrangement than FCRC, similar to colocation of STOC +CCC this year
 - ▷ Location (in the US) and scheduling details to be worked out by both steering committees.
 - Joint paper sessions?
 - Joint tutorials/workshops?
 - Joint Young Researcher Forum?
 - ▷ **Strong support voiced at STOC business meeting**

An event organized by



with the support of



ALGO 2013

Sophia Antipolis, September 2-6, 2013

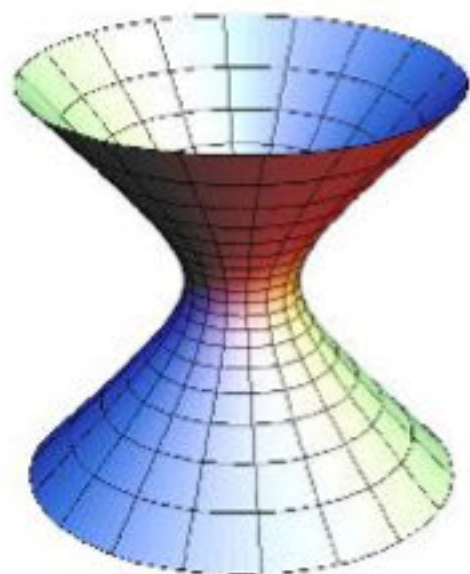
<http://algo2013.inria.fr/>

early registration: July 29th

rooms at special rate: June 27th



INSTITUTE FOR PURE AND APPLIED MATHEMATICS
Los Angeles, California



Algebraic Techniques for Combinatorial and Computational Geometry

March 10 – June 13, 2014

ORGANIZING COMMITTEE: Jordan Ellenberg (University of Wisconsin), Nets Katz (Caltech), Micha Sharir (Tel Aviv University), Jozsef Solymosi (University of British Columbia)

www.ipam.ucla.edu/programs/ccg2014



UCLA

IPAM is an NSF funded institute



Bids for SOCG 2015

- ▶ Braunschweig, Germany
 - ▷ Sándor Fekete, Michael Hemmer, Alexander Kröller
- ▶ Portland, Oregon, US
 - ▷ John Hershberger
- ▶ **Eindhoven, Netherlands — the winner**
 - ▷ Kevin Buchin, Mark van Kreveld, Bettina Speckman
- ▶ Brisbane, Australia
 - ▷ Ben Burton, Joachim Gudmundsson



Technische
Universität
Braunschweig

Department of Computer Science



SoCG & CG Week 2015
May 26-29, 2015
Braunschweig, Germany

Braunschweig – Location and Facts



The city of Braunschweig:

- Located in the middle of Europe
- in the center of Germany
- Very well connected to the high-speed train-network (ICE)
- Very well connected to the highway network (Autobahn)
- Major international airports nearby:
 - Hannover (1 hour)
 - Berlin (2 hours)
 - Frankfurt (3 hours)
- Population of around 250.000

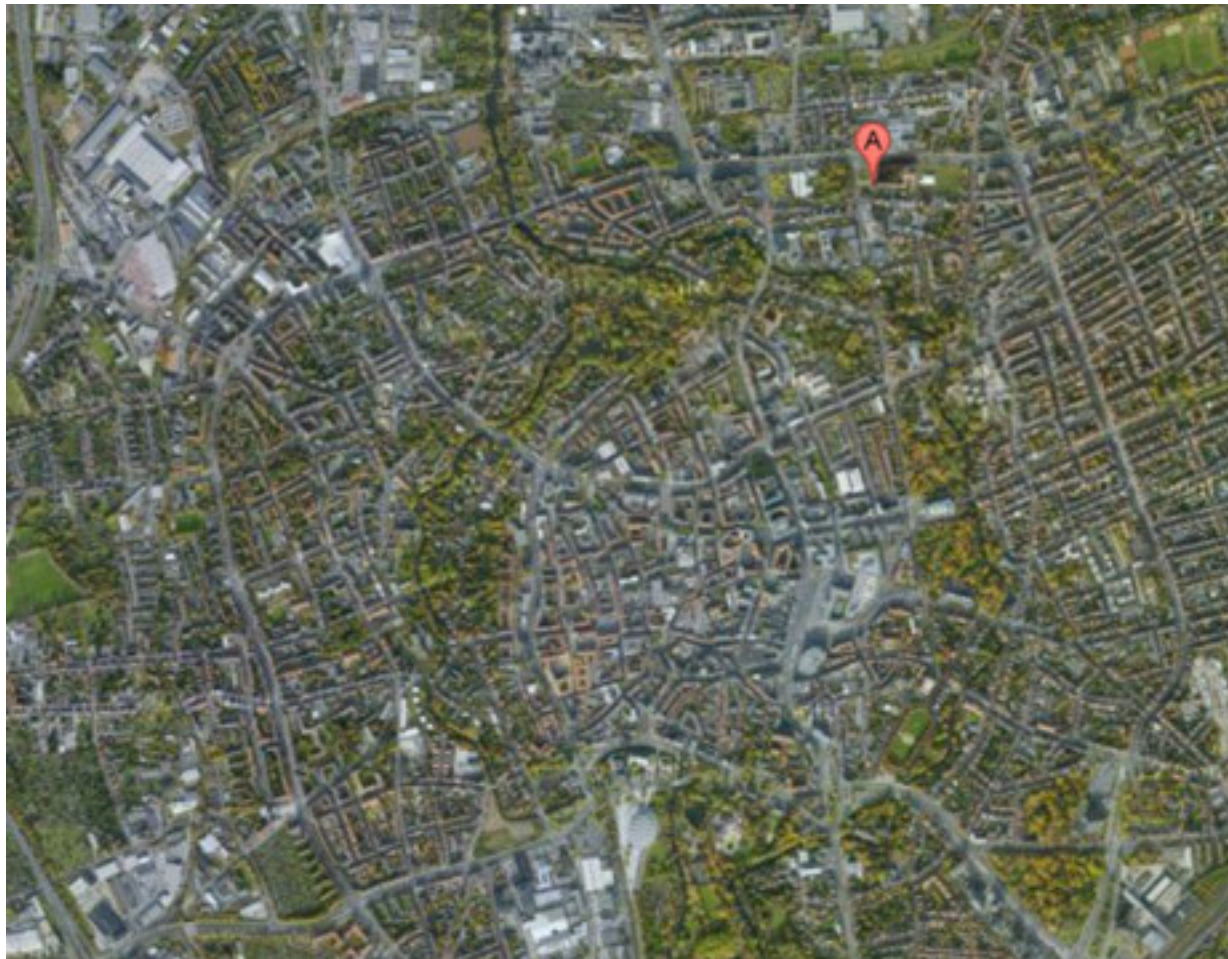
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Braunschweig – A City with a Long History



- The city was founded more than **1000 years ago** and initially made up of 5 boroughs.
- Duke **Henry the Lion** made Braunschweig the capital of his state in the 12th century.
- During the Middle Ages Braunschweig was a member of the **Hanseatic League**.

Braunschweig – A City that Attracts Visitors



- Countless medieval buildings (castles, monuments, trading houses, etc.)
- Religious buildings (11 churches and monasteries dating from the early Middle Ages)
- Nature reserves and parks
- The museum of science phenomena (phæno)

Braunschweig in Spring



- This May was unusually wet (like most of Europe)
- + We usually have some really nice spring days
 - e.g., this year, before and after the rain.

Braunschweig – City of Science

27 research institutes are active in the Braunschweig region:

- 3 Universities
 - Braunschweig University of Technology (TU Braunschweig)
 - Braunschweig University of the Fine Arts
 - Braunschweig/Wolfenbüttel University of Applied Sciences
- PTB – The national institute for physics
- DLR – German Aerospace Center
- Helmholtz Centre for Infection Research
- etc.



SoCG 2015 – House of Science

- **Lecture rooms:**

The House of Science Braunschweig offers an assembly hall for up to 300 people, as well as two seminar rooms, which are separated by a removable partition wall and can be converted into a bigger lecture hall.

For large-scale events, additional rooms within the building complex can be rented. There is also a 150 m² exhibition area available for small-scale exhibitions.

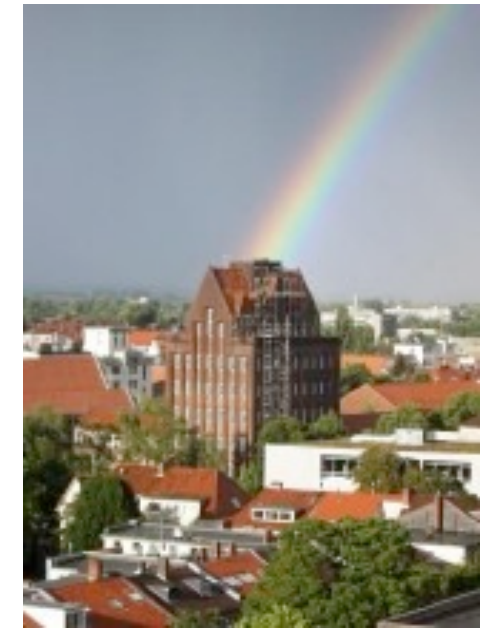
- **Price:**

For two seminar rooms per full day:

225 Euros (assembly hall for invited talks at no additional cost.)

- **Lunches and Coffee Breaks:**

Lunch is 100m away, coffee breaks in the building.

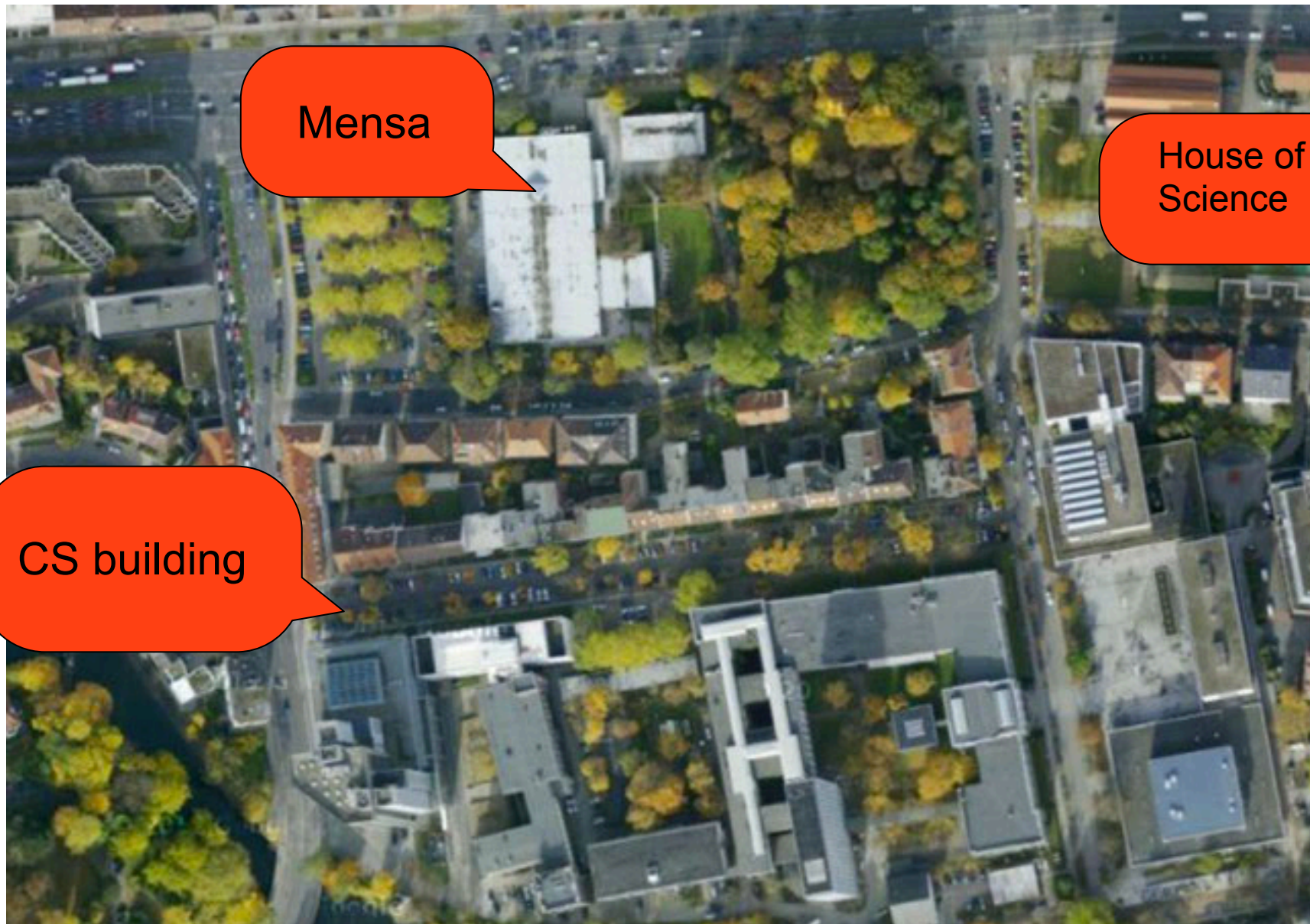


CG Week 2015 – Computer Science Building

- **Additional seminar rooms if more than three CG workshops in parallel:**
Various seminar rooms of all sizes.
(12-300)
- **Price:**
Free during semester breaks.



xy-Plane



SoCG 2013 – Accomodation

Hotels are in walking distance from the town center (and the university).

- "Advance Hotel"
Website: www.advance-hotel.de
Prices: 83€ single, 98€ double
- "Hotel am Wollmarkt"
Website: www.hotel.cvjm-braunschweig.de (german only)
Prices: 49€ single, 80€ double
- "Frühlingshotel"
Website: www.fruehlingshotel.de
Prices: 59€ single, 78€ double
- "Stadthotel Magnitor"
Website: www.stadthotel-magni.de
Prices: 70€ single, 100€ double
- "City-Hotel Braunschweig"
Website: www.cityhotel.de
Prices: 75€ single, 95€ double
- "Ringhotel Deutsches Haus"
Website: www.ringhotels.de
Prices: 76€ single, 114€ double



EuroCG 2013 – Lunches and Breaks

- **Reception:**

Buffet at House of Science or CS building, catering service for not more than 12 Euros per person.

(See <http://www.goethes.de/content/view/6/8/>)

- **Coffee breaks:**

Are provided, price reasonable (less than 8 Euros with nice cake and fruit)

- **Lunches**

University restaurant (“Mensa”) for about 8 Euros per person per meal, including drinks, salad, dessert.

(See <http://www.sw-bs.de/braunschweig/essen/tu1>)



SoCG 2015 – Social Event and Banquet

- **Rafting Tour**

- Rafting tour on the river, around the old city of Braunschweig
- Banquet on the raft, part of the tour

- **Science Museum**

- Science and Mobility Museum in Wolfsburg.
- Banquet at the location of the excursion.



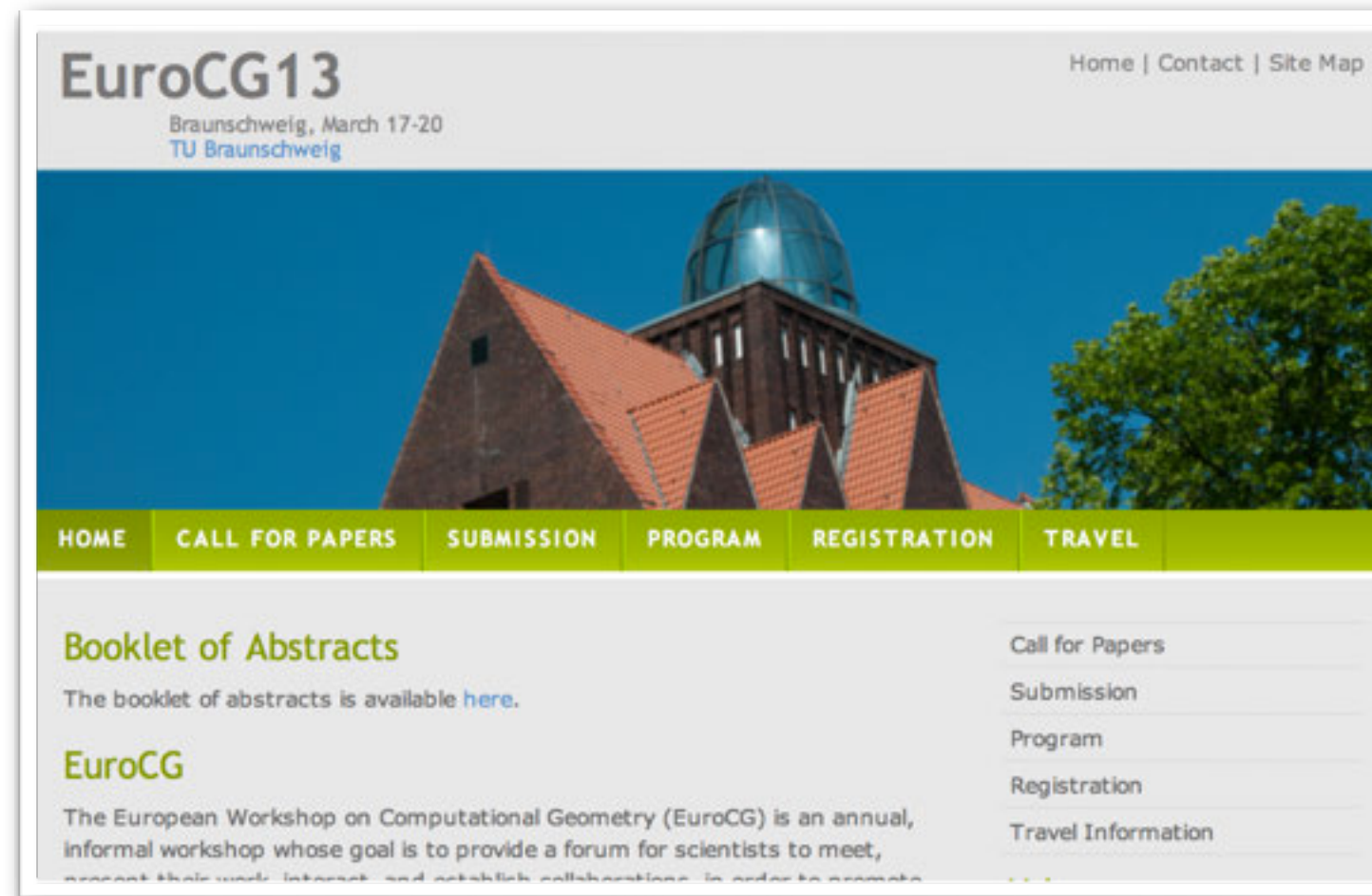
OR



Braunschweig as Conference Venue

We just hosted EuroCG 2013!

- 120 participants
- Fees: 170 € (regular), 120 € (student)
 - 3 invited talks
 - reception
 - banquet
 - 3 lunches
 - 6 coffee breaks with cake and fruit
 - social event
 - open house at the CS building (games, games)
 - arrangements for paying from overseas
 - all other arrangements
- Extra day for EuroGIGA (so 4 1/2 days in total)



SoCG 2015 – Budget

Assuming 150+ participants, using current prices and assuming four full days (CG Week!)

- **Proceedings:** tbd
- **8 coffee breaks:** 32 €/person
- **4 Lunches:** 32 €/person
- **Reception:** 12 €/person
- **Banquet:** 50 €/person
- **Organization (incl. CC)** 30 €/person
- **Social event** 30 €/person
- **Invited speakers** tbd
- **Lecture rooms** 900 € total
- **TOTAL:** 182 €/person + tbd

A **total** regular registration fee of 230 € looks realistic – *including proceedings, 8 coffee breaks, 4 lunches, reception, excursion, banquet, social event, CG Week*

Of course: Additional money from sponsors can lower the rate.



SoCG 2015 – Dates

- Preferred dates:

May 26-29, 2015

(Our spring break! Monday
 May 25 is a holiday, conference dates
 Tuesday-Friday)

We have a preliminary reservation!

May						
Mon	Tue	Wed	Thu	Fri	Sat	Sun
27	28	29	30	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

June						
Mon	Tue	Wed	Thu	Fri	Sat	Sun
1	2	3	4	5	6	7
8	9	10	11	12	13	14
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15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	1	2	3	4	5

- Alternative dates:

Any other week in June

(More studentes, more crowded for lunch,
 space for workshops is trickier)



At this point, we can still pick and choose!

ACM or not ACM?

- **ACM:**
 - + Prestige and recognition
 - + Easier getting sponsors
 - + Digital library
 - Extra hassle
 - Extra cost
 - **“In cooperation with”:**
 - + Best of both
 - Not offered for Paris
 - Backlash from community
 - + Offered again by ACM
- ➔ **Favorite: “In cooperation with”**
- ➔ **Can live without ACM, but that changes some aspects.**



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**Thank you and see you in
Braunschweig in 2015!**

Bid for SoCG 2015 Brisbane, Australia



Location

- Brisbane:
 - Australia's third-largest city
 - Many attractions
 - Easy international access



- Proposed dates: 29 June – 2 July (flexible, TBC)
 - Pleasant “winter” weather (9-21°C)

Location: Main Site

- The University of Queensland
 - One of Australia's most prestigious universities
 - Located on the river in the heart of Brisbane
 - Large campus with excellent facilities
 - Shops, eateries, medical services on campus



Organising Team: Key People

- Benjamin Burton (Univ. Queensland)
 - Key organiser for IOI 2013 (International Olympiad in Informatics, 700+ people)
 - Local access to students & staff
- Joachim Gudmundsson (Univ. Sydney)
 - Key organiser for COCOON 2012 and two Dagstuhl seminars



Venues

- Accommodation:
 - On-site residences (\$75/nt)
 - Hotels in the city (\$110+/nt)
- Lecture rooms
 - Modern facilities, good internet (includes eduroam)



Logistics

- Food:

- Colleges have optional in-house catering (cheap)
- Plenty of food options on campus
- 10 minute walk to restaurants, supermarket



- Transport:

- Everything is on site
- Easy, direct bus or ferry access from the city

Flights

- Large international airport 15km from venue
- Direct connections to key international hubs
- Return from...
 - Los Angeles: 1700 AUD
 - New York: 1900 AUD
 - London: 1400 AUD
 - Frankfurt: 1500 AUD
 - Tokyo: 1250 AUD



Finance & Admin

- Aim: keep it as cheap as possible
- Financial & in-kind support from the university
- Estimated registration:
 - 350 AUD regular
 - 200 AUD student
- Happy with ACM
- Happy without ACM



SoCG 2015 Eindhoven

Kevin Buchin
Marc van Kreveld
Bettina Speckmann

... presented to you by ...

the local organizers:

Bettina
Speckmann



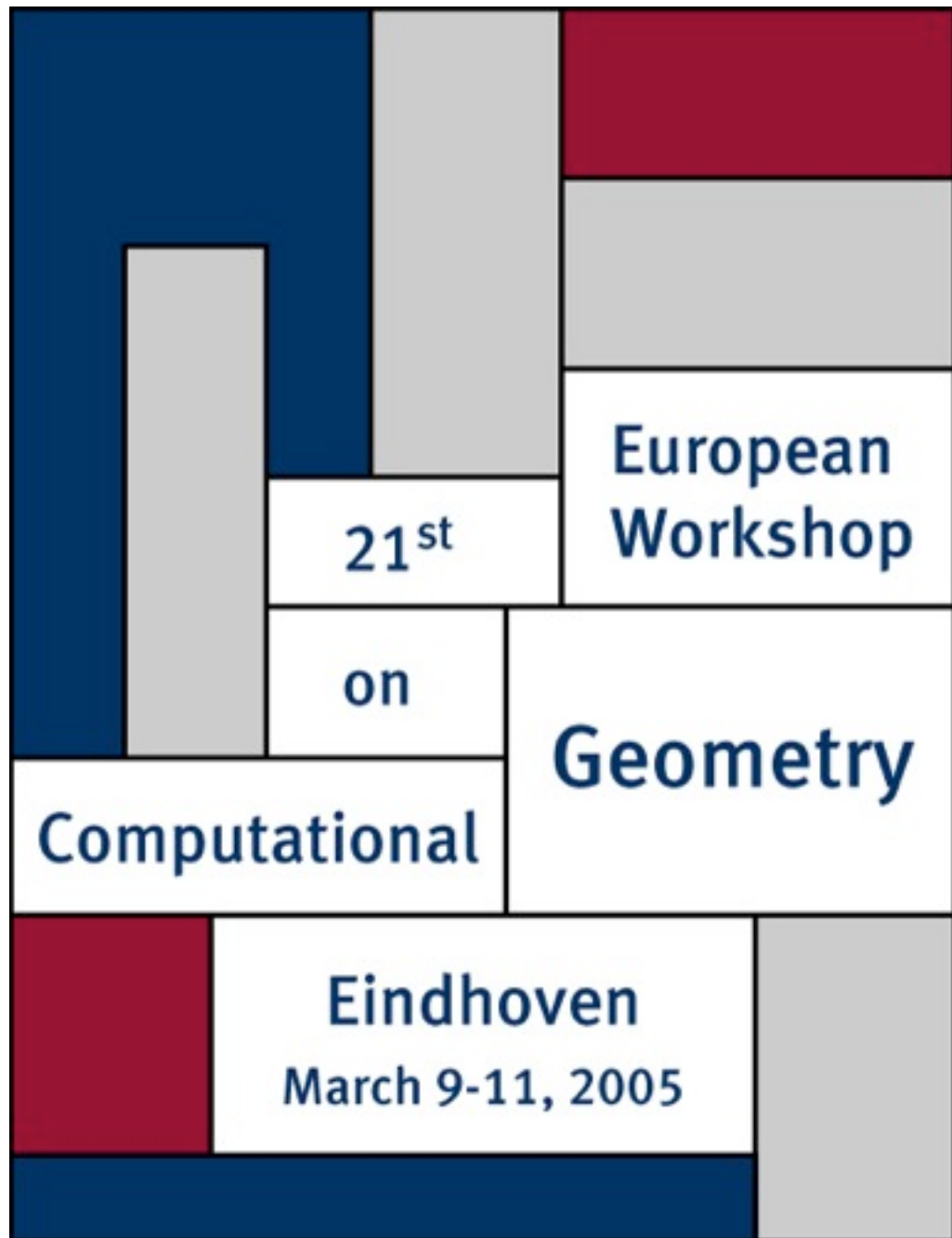
Kevin
Buchin



Marc
van Kreveld



Previous experience



Where is Eindhoven



What is Eindhoven?



What is Eindhoven?



Dutch Design Week



PHILIPS

Let's make things better

Conference venue

- At the TU Eindhoven campus
- Walking distance from the hotels
- Walking distance from the train station
- Walking distance from many café's
- Walking distance from many restaurants
- Bring shoes suitable for walking!



Conference venue

- Auditorium of TU/e
- Same venue as EuroCG 2005 and GD 2011



Conference venue



Conference venue







Travel

- Car
- Train
- Plane
 - Schiphol Airport (+ 1:30 by train)
 - Eindhoven Airport (Ryan Air; +0:20 by bus)
 - Düsseldorf (+ 2:20 by train)
 - Köln-Bonn (+bus + 2:30 by train)
 - Frankfurt (+ 3:50 by train)






Accommodation

- Budget hotels 60-70 (34?!) □ Standard 85-105 □ Top end -250

Hotels are walking distance (15-25 minutes) from the conference site (university campus)

Accommodation

We have blocked rooms at the following three hotels. These rooms can be booked during [registration](#) and are available on a **first-come, first-serve** basis until August 31. The listed prices only apply to this special early-registration deal.

Hotel	Distance from Conference venue	Single room (per night)	Double room (per night)
 Crown Inn	15 min. walk	€ 65.00	€ 85.00
 Queen Hotel	15 min. walk	€ 97.50	€ 120.00
 Sandton Hotel Eindhoven City Centre	25 min. walk	€ 94.00	€ 109.00

Registration fee

19th International Symposium on Graph Drawing Sept 21-23 2011



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[Accepted papers](#)

[Proceedings](#)

[Program](#)

[Contest](#)

[Registration](#)

[Accommodation](#)

[Child care](#)

[Travel](#)

[Tradition](#)

[Contact](#)

Registration

Registration goes via a centralized service at TU Eindhoven linked below. You will be asked to provide personal details and answer questions regarding special dietary needs. The registration fees are as follows.

	Until Aug 31	From Sept 1
Regular	€ 200	€ 250
Student	€ 150	€ 200

The registration fee includes:

- the welcome reception (drinks and buffet) on Tuesday,
- a conference banquet on Thursday,
- coffee breaks and lunches every day,
- and a printed copy of the proceedings.

The registration fee can be paid by bank transfer or by credit card. We hope most attendees will be able to pay by bank transfer, since the registration office charges **an additional fee of €10.00 for credit cards.**

[Go to registration.](#)

For any questions regarding registration, please [contact us](#).



Netherlands Organisation
for Scientific Research

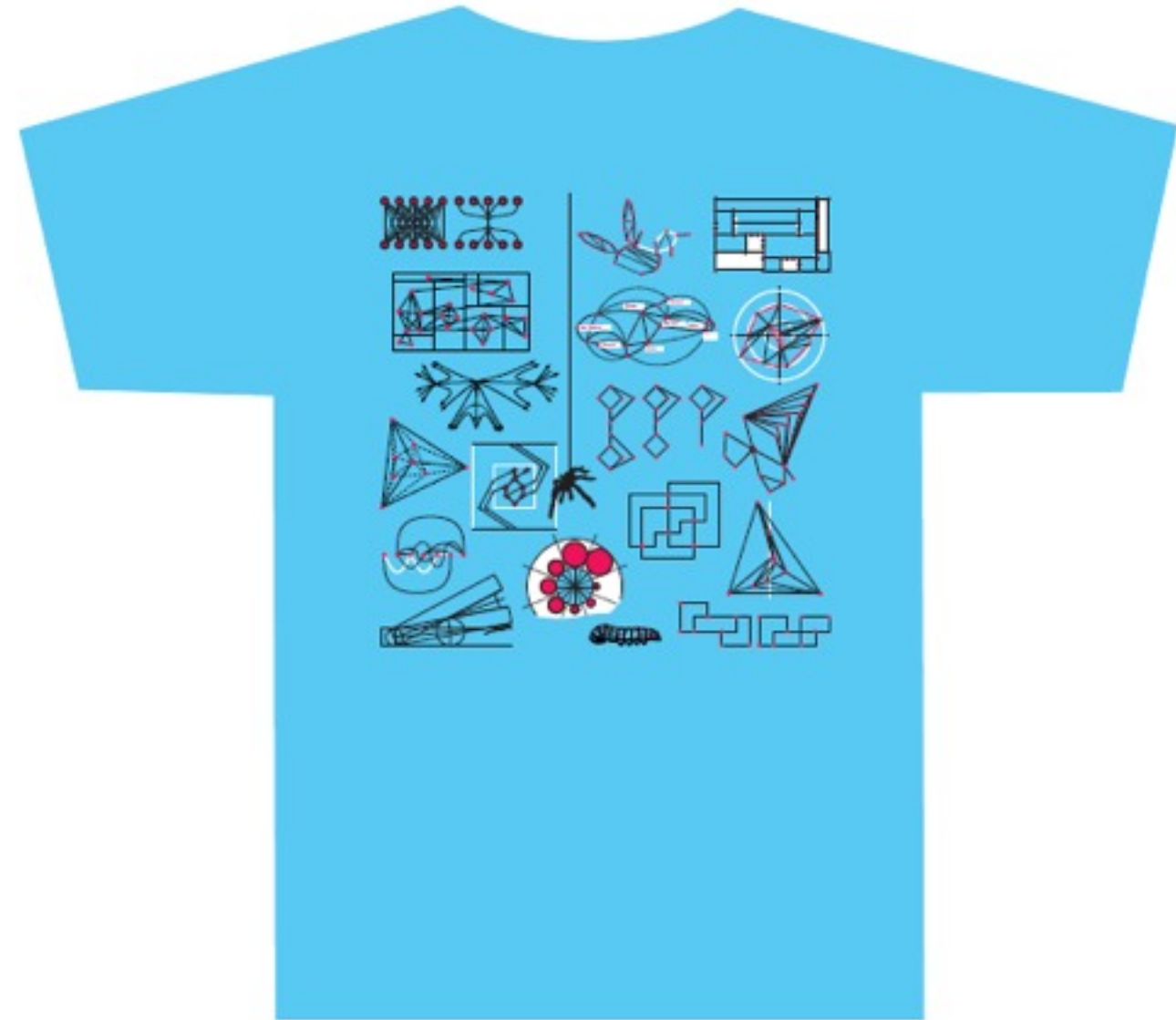
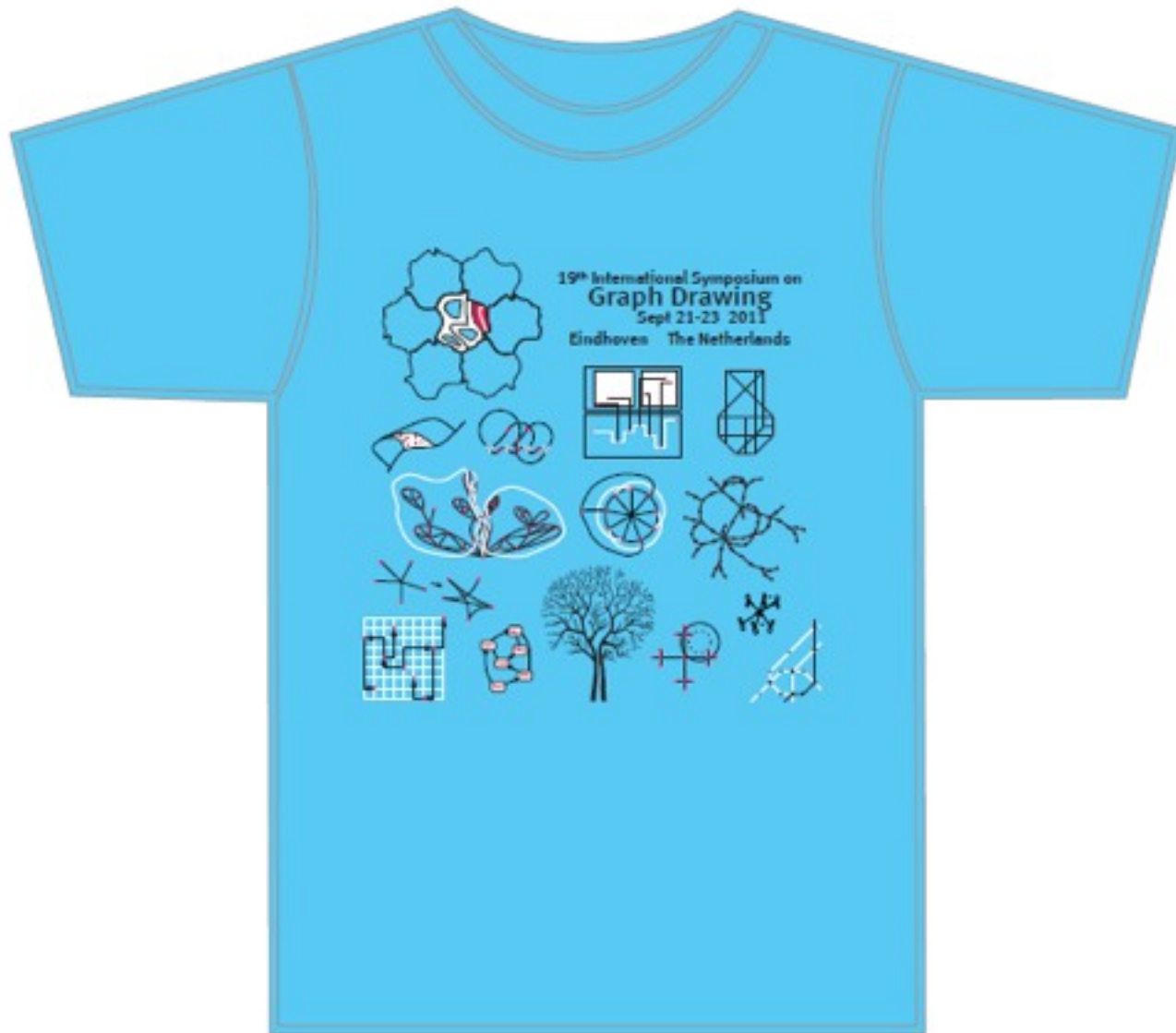
Gold sponsors



Silver sponsors



GD T-shirt



Dates

- 4 days in June 2015, Mon-Thu
June 8-11, 15-18, or **22-25 (exam week)**



See you 2015 in Eindhoven !?!

Portland Oregon

Welcomes

**ACM Symposium
on Computational Geometry**

~~2013~~

2015

*To the City
of Roses*



Why Portland?

- **Vibrant:** restaurants, bistros, theatre, symphony, ballet, galleries and museums.
- **Charming:** easy to walk, outdoor cafes, sidewalk art.
- **Unique:** Microbrews galore, international award-winning regional wines, and coffee shops on every corner.

The Oregon Brewers Festival, held on Portland's waterfront, is the largest gathering of independent brewers in North America.

Portland Area Attractions

- Gardens:
 - International Rose Garden
 - Chinese Classical Garden
 - Japanese Garden
- OMSI
- Portland Art Museum
- Saturday Market
- Tom McCall Waterfront Park
- Powell's Bookstore
- Vibrant neighborhoods



The Portland Saturday Market is the largest continuously operating open-air crafts market in the United States.

Possibly the Best Bookstore in the World....

- The largest used and new bookstore in the world
- Occupies an entire city block
- Stocks more than a million new and used books
 - 9 color coded rooms
 - 3,500 different sections



Powell's City of Books

The city of Portland was officially incorporated on February 8, 1851.

Rose Festival



- June Event
- Grand Floral Parade
- Starlight Parade
- Waterfront Village (carnival)
- Portland Arts Festival
- Evening concerts



More than 8,000 rose bushes bloom at the INTERNATIONAL ROSE TEST GARDEN. Best viewing months are May through September.

Surrounding Portland

- 30 minutes from downtown:
Columbia Gorge
- 60 minutes from downtown:
Mount Hood
- 90 minutes from downtown:
Oregon Coast



30 minutes from downtown:
Multnomah Falls

Oregon is one of just two states in which residents — and visitors — enjoy the luxury of always having their gas pumped for them. It's the law!

Green Leadership



- In 1993, Portland became the first U.S. city to adopt a Global Warming Action Plan.
- Portlanders recycle 63 percent of their waste, one of the highest rates in the nation.
- Oregon introduced the first bottle bill in the United States in 1971.
- Portland has the nation's highest percentage of bicycle commuters, 3.5 percent.
- All public transportation is free within a 300 square block Downtown.

Portland is the birthplace of car-sharing in the United States. Today, Portland's Zipcar members enjoy access to a fleet of more than 200 vehicles.

Getting There and Getting Around



PDX – Portland International Airport

- Only 9 miles from city center
- Served by 16 major carriers
- Direct or non-stop service to more than 112 cities worldwide
- Over 494 flights daily
- Competitive airfares
- Town cars, limousines and shuttles
- Average taxi fare to downtown Portland \$35
- Airport MAX Light Rail only \$2.30

Getting Around – Max Light Rail

- MAX Light Rail - Safe, Clean and ADA compliant
- Portland Streetcar
- “Free Rail Zone” – MAX and Streetcar are FREE within the core downtown area.



Hotels

- University Place
 - \$102.00/night (Rose Festival Week, t.b.d.)
 - \$84.00/night
 - PSU affiliated
 - Just south of downtown, on the free streetcar line



Hotels, cont.

- Marriott Waterfront
 - \$189.00/night (Rose Festival Week, t.b.d.)
 - \$169.00/night
 - Next to Waterfront Park



Hotels, Cont.

- Embassy Suites
 - \$197.00/night (Rose Festival Week, t.b.d.)
 - \$179.00/night
 - Historic property, beautifully restored
 - Located in the heart of Portland's Old Town



Hotels, cont.

- Portland Hilton & Executive Towers
 - \$197.00/night (Rose Festival Week, t.b.d.)
 - \$179.00/night
 - Located in the heart of downtown Portland
 - Near the MAX and streetcar lines

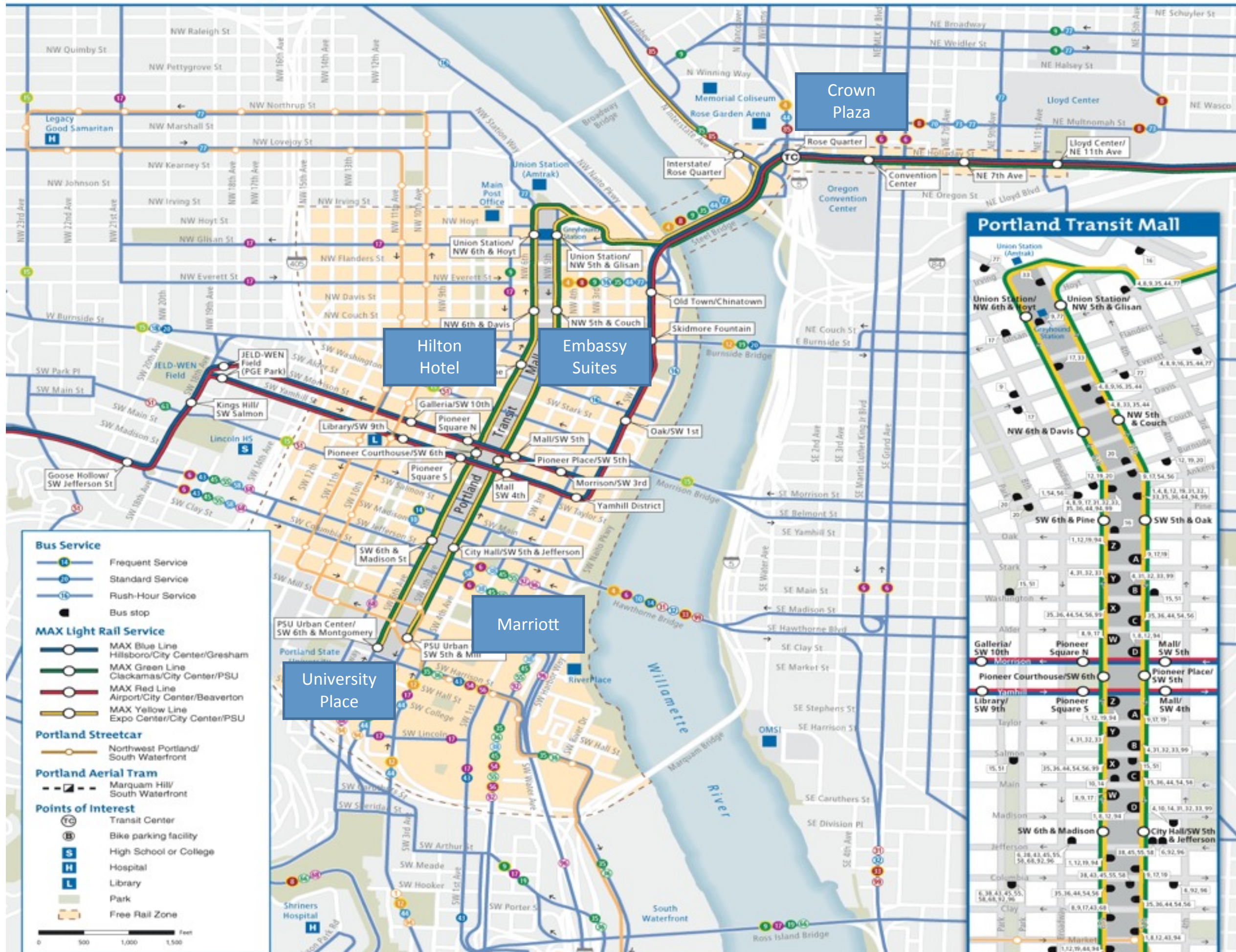


Hotels, cont.

- Crown Plaza/Convention Center
 - \$156.00/night (Rose Festival Week, t.b.d.)
 - \$142.00/night
 - Walking distance to Oregon Convention Center
 - Within Free Rail Zone, complimentary airport shuttle



Portland City Center and Free Rail Zone



Bids for SOCG 2015

	Round 1 (vote for 2)	Round 2 (vote for 1)
Braunschweig	25	
Brisbane	26	
Eindhoven	40.5	36 yes, 25 no
Portland	25	

SOCG and ACM

Thanks for info

- ▶ **Paul Beame** — SIGACT chair
- ▶ **Otfried Cheong** — 2000 and 2007 local organizer
- ▶ **Lars Arge** — 2009 local organizer
- ▶ **Steve Oudot and Marc Glisse** — 2011 local organizers
- ▶ **Jack Snoeyink** — 2012 local organizer, 2009–2013 steering comm. chair
- ▶ **Thomas Lewiner** — 2013 local organizer
- ▶ **Mark de Berg, David Eppstein, Joe Mitchell, Günter Rote** — steering committee

Our history with ACM

- ▶ SOCG sponsored by ACM from its inception in 1985
- ▶ SOCG 2000 (Hong Kong)
 - ▷ ACM conference rules required violating local banking laws
 - ▷ Officially sponsored by ACM, but actually financially independent
- ▶ SOCG 2007 (Korea)
 - ▷ First SOCG “in cooperation” with ACM
 - ▷ Permanent “in cooperation” status discussed at business meeting
 - “Let the steering committee decide.” — **We didn't.**
- ▶ SOCG 2009 (Aarhus)
 - ▷ Again “in cooperation” with ACM

SOCG 2011 (Paris)

- ▶ “In cooperation” status was approved by SIGACT and SIGGRAPH, but denied by ACM.
- ▶ Serious communication breakdown.
 - ▷ In particular, no contract between ACM and INRIA.
- ▶ This made things . . . complicated.

The Vote

- ▶ Independence vote proposed at 2011 business meeting
- ▶ First vote via community mailing list, November 2011
 - ▷ 29 votes (23%) to stay with ACM
 - ▷ 48 votes (39%) to retain ACM as publisher only
 - ▷ 47 votes (38%) to leave ACM entirely
- ▶ SOCG 2012 business meeting:
 - ▷ ACM rejected “publisher only” option
 - ▷ Will consider “in cooperation” in future, but no automatic approval
- ▶ Second vote via community mailing list, November 2012
 - ▷ 36 votes (42%) to stay with ACM
 - ▷ 50 votes (58%) to leave ACM

Issues with The Vote

▶ Lack of ACM / SIGACT involvement

▷ No opportunity for formal ACM / SIGACT response

- Poll description received just before voting began

▷ Communication lost in transition

- Paul Beame became SIGACT chair in July 2012
- Lance Fortnow became GA Tech CS department chair in August 2012
- Vote took place November 2012
- New steering committee elected March 2013

▷ Initial reaction from ACM / SIGACT: **shock, outrage, betrayal**

- One prominent ACM member publicly thundered, "This is not real democracy!"

Issues with The Vote

- ▶ **Small number of votes:** Quorum of 80 barely met
 - ▶ 86 votes in second round
 - ▶ 124 voters in first round
 - ▶ **259** voters in the 2013 steering committee election
 - ▶ **800+** subscribers to CG mailing list

Steering committee consensus

Despite these issues, we should reconsider the vote only if ACM's position on future "in cooperation" approval changes.

ACM's position

ACM will not object to in-cooperation status when the conference is held outside the US.

— Paul Beame (SIGACT chair)

SOCG 2014 (Kyoto) will be organized *in cooperation* with ACM.

Further developments

- ▶ SIGACT (esp. Paul Beame) is working hard to keep SOCG
 - ▶ SIGACT exec board: SIGACT will cover extra proceedings cost for "in cooperation" SOCGs
- ▶ ACM and INRIA are working to clear SOCG 2011 budget
 - ▶ About 40% of owed money already reclaimed by French government
 - ▶ For remaining 60%, ACM has signed contracts and invoiced INRIA
 - ▶ Money earmarked for SIGACT for exclusive use by SOCG
- ▶ ACM → SIG → conference overhead has gone down
 - ▶ Was 16% of expenses
 - ▶ Now $(15\% \text{ for SIGACT} + 10\% \text{ for SIGGRAPH})/2 = \mathbf{12.5\%}$ for SOCG

Open access

ACM is providing more mechanisms for free access to papers in the Digital Library

- ▷ Free access to proceedings for one month after conference
- ▷ “Author-Izer” pages for SIGs — Free access to SIG-sponsored proceedings for 12 months
- ▷ “Author-Izer” pages for individuals — Free access to author’s proceedings and journal papers
- ▷ Author pays \$1500 (ACM members \$1100)
 - Everyone knows this price structure is broken, even within ACM
- ▷ Active and heated discussion within ACM

Open access

“Pure” open access — free for authors *and* readers — is not an option for ACM. Maintaining the Digital Library requires time and expertise, which costs real money.

- ▷ Create metadata, disambiguate references, etc.
 - Metadata also given to Google Scholar
- ▷ Estimated cost is about \$400 per paper.
- ▶ ... but we can emulate SIGCOMM.

Proposed Final Vote

▶ **Option 1: Stay with ACM**

- ▶ With the understanding that ACM will not object to good-faith request for in-cooperation status outside the United States. Violation of this understanding triggers our immediate departure.

▶ **Option 2: Leave ACM**

- ▶ Steering committee *immediately* begins developing an independent organization (including financial backing, publication agreements, and new conference name) with an independent conference beginning in 2015.

▶ **No reconsideration of this issue for at least five years.**

Proposed Timeline

- ▶ Discussion site: makingsocg.wordpress.com
 - ▷ Will invite position statements from ACM, SIGACT, SIGGRAPH, past SOCG local organizers, local organizers of other ACM conferences, representatives from other independent conferences
- ▶ Discussion and vote widely advertised through CG mailing list, computational-geometry.org, social media, blogs, etc.
- ▶ Same voting system as steering committee elections.
- ▶ Voting window October 1–31



Obrigado!!