

Minutes of ICMS 2018 Business Meeting

University of Notre Dame

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Recorded by Jonathan D. Hauenstein, Secretary of ICMS

SUMMARY

The “International Congress of Mathematical Software” (ICMS) is a community of researchers and practitioners centered around “mathematical software” as a **scientific activity**. This community has organized six conferences:

- (1) ICMS 2002: Chinese Academy of Sciences (Location: Beijing, China)
- (2) ICMS 2006: University of Cantabria (Location: Castro Urdiales, Spain)
- (3) ICMS 2010: Kobe University (Location: Kobe, Japan)
- (4) ICMS 2014: Hanyang University (Location: Seoul, Korea)
- (5) ICMS 2016: Zuse Institute Berlin (Location: Berlin, Germany)
- (6) ICMS 2018: University of Notre Dame (Location: South Bend, Indiana, USA)

ICMS 2018 has approximately 125 attendees from many countries with diverse research areas.

The business meeting for ICMS 2018, led by Chee Yap, had 5 main topics:

- Section 1: Advisory Board
- Section 2: Local Organizers of ICMS 2018
- Section 3: Program Chairs of ICMS 2018
- Section 4: Location of ICMS 2020
- Section 5: General Chair of ICMS 2020
- Section 6: ICMS Website
- Section 7: Other topics

1. ADVISORY BOARD

Chee Yap provided an update regarding changes to the advisory board:

- Typically, the General Chair of the previous ICMS meeting becomes the Chair of the ICMS Advisory Board. However, due to circumstances, Gert-Martin Greuel has abdicated the Chair and thus James Davenport will become the next Chair of the ICMS Advisory Board.
- The General Chair for ICMS 2020, the seventh meeting of ICMS, will be Michael Joswig.

2. LOCAL ORGANIZERS OF ICMS 2018

Jonathan Hauenstein with an introduction by Andrew Sommese summarized ICMS 2018:

- As of the first day of the conference, there were over 125 registered participants, roughly 25 of which were graduate students.
- The budget for ICMS 2018 is balanced.
 - Direct funding sources: Notre Dame, National Science Foundation, Oak Ridge Associated Universities, registration fees, and some remaining funds from ICMS 2016.

- The Institute for Mathematics and its Applications permitted member institutions to use their own travel funds to attend ICMS 2018.
 - Expenses: travel for plenary speakers (3) and travel grant recipients (≈ 25), banquet, daily coffee/snacks (including room rental), and registration material.
- It was decided to provide all conference participants an electronic copy of the proceedings via USB key rather than have a printed version. Printed versions are available for purchase from Springer’s website.

3. PROGRAM CHAIRS OF ICMS 2018

Manual Kauers provided a summary of the scientific nature of ICMS 2018:

- Talks/papers are organized into 20 sessions:
 - 59 accepted papers
 - 43 additional talks
- A decision had to be made regarding whether to have 3 or 4 parallel sessions – 3 was selected to avoid too much parallelism, but 4 would have resulted in longer talks.
- To make organizing the conference easier, it was noted that EasyChair should be used to handle both paper and talk submissions for future events.
- To encourage more submissions, the call for talks, papers, and posters needs to be provided earlier.
- Organizers of the sessions should encourage more software aspects in the papers.
- Future ICMS meetings should have a “Software Demo Session.” General agreement on lightning talks followed by an afternoon of small group demos.
- A discussion regarding publishing full papers in a special issue of *Mathematics in Computer Science* resulted in general agreement with James Davenport to continue the conversation with Springer.

4. LOCATION OF ICMS 2020

James Davenport provided information about potential options for ICMS 2020:

- ECM 2020 is July 5-11 in Slovenia. ISSAC 2020 may be the week on July 20th in Kalamata, Greece. The week between these two conferences is an ideal choice for ICMS 2020 located somewhere on the Balkan Peninsula.
- Invited and contributed tutorials were discussed. Since invited tutorials require additional travel expenses, there was general agreement on the demo sessions described above.

5. GENERAL CHAIR OF ICMS 2020

Michael Joswig provided a summary of items to consider for ICMS 2020:

- Expand base of mathematical software by reaching out to other communities.
- Software citations in proceedings:
 - persistent information that clearly identifies it as software with version information
 - produce a standard set of guidelines for software citations that ICMS 2020 and Springer could adopt
 - certificates of reproducibility may be difficult to enforce, but should be encouraged

6. ICMS WEBSITE

Michael Kohlhasse provided an update on the ICMS website:

- The ICMS website is stable at icms-conference.org with a mailing list.
- Everyone is encouraged to add to the website and blog so that all data is in one place. It is easy to do!

7. OTHER TOPICS

The only other topic was to again encourage ICMS to develop and adopt software citation guidelines. Since ICMS promotes mathematical software, it should be at the forefront of software citations with help from Springer who has published the ICMS proceedings.