

CEIC Annual Report 2015

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1 World Heritage Digital Mathematics Library

On August 17, 2014, in conjunction with the International Congress of Mathematicians in Seoul, South Korea, the IMU and CEIC hosted a meeting of a select group of 21 experts plus at least eight remote participants to plan the next practical steps towards the construction of the Global Digital Mathematical Library (GDML). As a result, a smaller eight person working group (WG) under the sponsorship of the IMU, was created. The WG members are Patrick Ion (who has now also joined CEIC), chair (USA), Thierry Bouche (France), Bruno Buchberger (Austria), Michael Kohlhase (Germany), Jim Pitman (USA), Olaf Teschke (Germany), Stephen Watt (Canada), and Eric Weisstein (USA). The WG is charged with the tasks of designing a road map for the practical next steps towards the GDML, determining its organizational structure, prioritizing the different requirements for its implementation, estimating an incremental budget, both start-up and sustaining funds, and fostering the writing of proposals to funding organizations. The WG held 40 minuted telcons in 2015 (12 in 2014) and also practiced outreach (community building) by presenting at the Spring CNI briefing, at OPSFA13 at NIST (PI) and CICM in DC (Jim Pitman), while holding a F2F in DC in association with CICM.

Questions of appropriate governance for this activity, which took up a lot of 2015, now seem to be resolved, and plans are well under way for creation of an International Mathematical Knowledge Trust, as an overall governing body.

In addition, the WG spent time in 2015 organising a session at the January 2016 Joint Mathematics Meeting in Seattle, and a Sloan/Wolfram/Fields workshop on Semantic Capture Language, in February 2016 in Toronto.

2 Other Business

CEIC considered various other issues.

DOIs It was noted that IMUNet had no persistent URLs, e.g. DOIs. The same applied to various IMU documents, such as the “Best Practices” and the “Citations” report. We set up a working group to investigate this.

IMUNet CEIC's column in IMUNet is entitled "IMU on the Web", which confuses many people: this is now called "CEIC Notes and Comments".

Archiving This is a matter of ongoing discussion. The 2014 ICM seems to fairly well-archived, which is probably due to the attention paid to this question *before* the ICM itself. The next challenge being picked up after the 2015 officer/committee rotation, is to make this into standard practice. In addition, the office staff have now done an excellent job of recovering the vidoes of the 2006 ICM, now at <http://www.mathunion.org/activities/icm/videos/icm-2006-madrid/>.

Copyright The 2001 "Best Practice" document was looking dated. It needs updating to cover items such as Green/Gold Open Access, Creative Commons licences (which version?), copyright in items such as \TeX macros, interaction between ArXiv and publishers' policies. We had asked Doug Arnold, Victoria Stodden and Ulf Rehmann to form a working party, with James Davenport as CEIC liaison. This involves understanding the current landscape, which seems to be moving every day with funders' announcements changing the scene, and occasionally in ways very confusing to international collaboration.

ICSU (International Council for Science). CEIC is an Associate Member of the ICSU World Data System. Olga Caprotti maintains our liaison here.