

# CEIC Annual Report 2017

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March 2018

CEIC met in March 2017, hosted by Mathematical Reviews in Ann Arbor, and local arrangements were kindly made by Patrick Ion.

## 1 Global Digital Mathematics Library

**Background.** 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 chair (USA, CEIC), Thierry Bouche (France, CEIC), 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.

**2017 events.** The WG had determined that the best way forward was to establish an independent International Mathematical Knowledge Trust (IMKT). The WG obtained (announced start of 2017) an Alfred P. Sloan/Wolfram Foundation grant to establish this. It is a charity located in Canada (but with the opportunity to have subsidiaries elsewhere to benefit from different jurisdictions charitable foundation arrangements). See [www.imkt.org](http://www.imkt.org).

## 2 Other Business

CEIC considered various other issues.

**DOIs** We fed the need to manage DOIs into website design. Still unresolved is the issue of whether IMU should be a DOI-minter: through CrossRef, who now support DOIs for “posted content”, membership fees are \$275

for organisations whose “total revenue from publishing” is less than \$1M, and \$0.25 per DOI<sup>1</sup>.

**IMUNet** CEIC’s column in IMUNet is now called “CEIC Notes and Comments”. James Davenport has taken over for 2017/18, but CEIC will need a new liaison. Various articles have been submitted.

**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  $\text{\TeX}$  macros, interaction between arXiv and publishers’ policies. We had established a working party to look at this, but no progress has been made. The process has been restarted under Tim Cole’s leadership.

**ICSU** (International Council for Science). CEIC (on behalf of IMU) is an Associate Member of the ICSU World Data System. Olga Caprotti maintained our liaison here: James Davenport has taken over for 2017/18, but CEIC will need a new liaison. There has been great pressure over the last few years from funders (notably NSF, EU and the UK research councils) for the publishing of research data. Funders are beginning to notice that this is of little use without the corresponding software. Davenport and UK colleagues have a paper into the 2018 CODATA Conference emphasising this. CEIC should continue to keep a watching brief on these developments.

**Website** IMU has commissioned a new website. CEIC endeavoured to work with the development team, noting the need for support for low-bandwidth connections.

**Metrics** In many developed countries, the “peer review versus metrics” battle is being won by peer review, with the San Francisco Declaration (<https://sfdora.org/>); signed by EMS and AMS, but not, paradoxically, by IMU) and the Leiden Manifesto (<http://www.leidenmanifesto.org/>). However, there are real problems in some, at least, less developed countries, where the community is not large, and there is a fear of cronyism. Raw data are often used inappropriately, and some have asked for more IMU support here. CEIC will liaise with CDC on these matters.

**Accessibility** This was discussed at the 2017 Meeting, but we need to be more pro-active here.

### 3 Membership

We welcomed Alf Onshuus (Universidad de los Andes, Columbia).

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<sup>1</sup>The structure is actually more complicated: see <https://www.crossref.org/fees/>.