

# CEIC Annual Report 2016

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## 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.

**2016 events.** The WG held 30 minuted telecons in 2016. The WG organised a session at the January 2016 Joint Mathematics Meeting in Seattle, and an Alfred P. Sloan/Wolfram/Fields workshop on Semantic Capture Language, in February 2016 in Toronto: see <http://www.wolframfoundation.org/programs/SemanticWorkshopWhitePaper.pdf>. In addition, information sessions were organised at ICMS 2016<sup>1</sup>, 7th ECM 2016 and CICM 2016. Further outreach sessions are planned for 2017.

The main activity of the WG was in organising funding to establish IMKT. This will be a charity located in Canada (but with the opportunity to have subsidiaries elsewhere to benefit form different jurisdictions charitable foundation arrangements). An application, with numerous letters of support, was submitted to the Alfred P. Sloan Foundation. At the very end of 2016 the WG heard that it had been accepted, and plans are now well under way for the formal establishment of IMKT.

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<sup>1</sup><http://staff.bath.ac.uk/masjhd/Meetings/JHDonICMS2016.pdf>, sections 2.1 and 4.5.

## 2 Other Business

CEIC considered various other issues.

**DOIs** We received the report of a working group set up to investigate IMU's need for DOIs. DOIs are persistent identifiers, and the need to manage this should be fed into website design.

**IMUNet** CEIC's column in IMUNet is now called "CEIC Notes and Comments". Carol Hutchins maintained our liaison here: James Davenport has taken over for 2017.

**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. In 2017 we will restart this process.

**ICSU** (International Council for Science). CEIC is an Associate Member of the ICSU World Data System. Olga Caprotti maintained our liaison here: James Davenport has taken over for 2017.

**Website** IMU has commissioned a new website. CEIC has fed in several requirements, including the need for analytics, and the need to be sensitive to low-bandwidth connections. We look forward to continued involvement in this process.

## 3 Membership

At the end of this year Olga Caprotti and Carol Hutchins reached the end of their terms of office. Both made great contributions to CEIC and IMU, and will be missed. We welcome Alf Onshuus (Universidad de los Andes, Columbia).