EDITORIAL

Recently, the editors of zbMATH informed us that the article by Elke Wolf: *Composition operators between weighted Bergman spaces and weighted Banach spaces of holomorphic functions* which we published in Bulletin 79 (2017) 75–85, has almost identical content to her article with the same title published earlier in Mathematica 57(80), No. 1–2, 126–134 (2015). See Zbl 1389.47077 `https://zbmath.org/?q=an%3A1389.47077`. They wrote: "The papers are identical to the letter apart from a remark in Section 2.2 in the IMS Bulletin version that was apparently added at the referee's suggestion. Actually, the IMS Bulletin version was submitted after the other version had been accepted." We learned that this author published another article multiple times. We are grateful to zbMATH for detecting the issue and pointing it out. Our Editorial Board was appalled. We contacted the author, and she apologized unreservedly. We contacted the editors of Mathematica, whose copyright we had inadvertently violated, and they were understanding of our position, stating that they considered the author bore the main responsibility for the breach.

There are established guidelines for handling such issues, set out in the article *Retraction Guidelines*, by COPE (Committee on Publication Ethics), available at
`www.publicationethics.org/files/retractionguidelines.pdf`.
Adhering to these, we decided:

- to retract the article on the grounds of self-plagiarism, i.e. redundant publication,
- to retain the online electronic copy of the article on our website, but to mark each page with an indication of the withdrawal,
- to record here in this editorial the basis and details of our decision,
- to publish a statement of the retraction in the format of an ordinary article in this issue of our Bulletin, with a view to having the retraction indexed in zbMath and MathSciNet and any other indexing resources.

Members will wish to note that there are some changes and new classes in the Mathematics Subject Classification 2020. There are searchable versions at the zbMATH website:
`https://zbmath.org/classification/`
and also at the MathSciNet site:
`https://mathscinet.ams.org/mathscinet/searchMSC.html`
Additionally, there is a PDF version of MSC2020 at
`https://mathscinet.ams.org/msnhtml/msc2020.pdf`
I encourage authors to employ MSC2020 from now on. We have provided revised versions of our class file bimsart.cls and article and review templates to accommodate MSC2020 classes.

I remind Irish schools to contribute news, ideally through the local representatives. Please send reports for 2020 by mid-December to

<center>

`mailto://ims.bulletin+news@gmail.com`

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so they can be included in the Winter Bulletin.

As before, to facilitate members who might wish to print the whole issue, the website will carry a pdf file of the whole Bulletin 85, in addition to the usual pdf files of the individual articles. As a further convenience (which may suit some Departments and

Libraries), for a limited time a printed and bound copy of this Bulletin may be ordered online on a print-on-demand basis at a minimal price[1].

This year's IMS Annual Scientific Meeting (also known as the "September meeting") will be held in DCU. **Due to the disruption caused by the COVID-19 pandemic, the meeting has been rescheduled, and will held in late December or early January.**

Recently the Royal Irish Academy confirmed its decision to cease underwriting the cost of Ireland's participation in the International Mathematical Union (IMU). The main costs are the subscription, currently €2840 per annum, and the expenses of a delegate to the ICM, every four years. The IMS Committee has decided to keep our participation going, and to take over from the RIA the rôle of liaison with the IMU. Our President, Pauline Mellon, will be writing to IMS members in a little while about the challenges this poses. It may be useful to recall some facts about Ireland's connection to the International Union to date:

The main purposes of the IMU are (cf. `https://www.mathunion.org/`)

- To promote international cooperation in mathematics.
- To support and assist the International Congress of Mathematicians (ICM) and other international scientific meetings or conferences.
- To encourage and support other international mathematical activities considered likely to contribute to the development of mathematical science in any of its aspects, pure, applied, or educational.

The permanent secretariat of the Union is in Berlin, since 2011. The Union has 88 member countries.

A country's subscription depends on its level of mathematical activity and development. Ireland pays the same subscription as countries of comparable size (in terms of mathematics) such as Austria, Denmark, Portugal and Slovakia. Big players such as France, Germany, Italy, Israel, UK, Japan, Russia, and USA pay Euro 17,160 per annum.

The first ICM took place at the Chicago World's Fair of 1893, and apart from interruptions due to world wars they continue on a quadrenniel basis. Hilbert's famous 'Problems' address at the 1900 Congress in Paris set out agenda that guided Mathematical research for much of the twentieth century. The IMU was set up in 1920 to look after the administration of the ICM. As part of this work, the IMU could be said to canonise the current priorities in mainstream mathematical research. The programme for the ICM is organised on the basis of a division of the discipline into sections, and this division is dynamic, evolving over time according to the appearance of new developments and applications.

From 1950 onward, the Fields Medals are awarded at the ICM, and more recently other prizes.

Colm Mulcahy has set out a comprehensive record of Irish participation in the International Congress (`http://www.mathsireland.ie/blog/2018_09_cm` and `http://www.mathsireland.ie/blog/2018_11_cm`). Looking at these blogs, one sees that Irish mathematicians were prominent at some key stages in the evolution of the ICM. For instance, Larmor, who was present at Hilbert's address and who gave a plenary address in 1912, was Vice-President of the Congress by 1920, when the IMU was set up. Synge was influential in the administration of several congresses, and played a key rôle in the creation of the Fields Medal. The first official representative of the Irish state was Conway, at the 1924 ICM in Toronto. At that meeting Ireland had two delegates and members present, out of 444, of whom 298 were from the US or Canada. By contrast,

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[1]Go to `www.lulu.com` and search for *Irish Mathematical Society Bulletin*.

the 2018 ICM in Rio de Janeiro had 3018 full members. Other speakers over the years included F.Edgeworth, E.T.Whittaker, William McCrea, John Todd, F.D.Murnaghan, P.de Brun, A.J. McConnell, J.R. McConnell, Lanczos, Paddy Kennedy, Paddy Barry, Cathleen Morawetz, and Don McQuillan.

The visibility of Irish-based people in the key IMU committees (the executive, the programme, the medal committees) and in the lists of invited speakers is substantially less than in the past. To a large extent this follows the same pattern as the sports olympics movement, where rising participation from around the world and differential population growth has reduced our relative proportion of top-level candidates. Recent ICM speakers included Kevin Costello b. Cork (Hyderabad 2010), Samson Shatashvili (TCD), and David Conlon b. Sligo (Seoul 2014).

In the past thirty years or so, the ICM has been accompanied by a large number of 'satellite conferences', held in the same country before or after the Congress, and focussing on specific fields. Although it does not appear on the record of the ICM, Irish mathematicians have been included as invited speakers at some of these meetings, and they are an important benefit to the country, in terms of new ideas learned and international collaborations initiated and maintained.

The most important benefit of Irish participation in the IMU and ICM lies in the maintenance and development of useful contacts, and the integration of the Irish mathematical community into the worldwide community.

The IMU has three commissions: ICMI (founded 1908) for Mathematics Education, CDC for Developing Countries, and ICHM for History of Mathematics, and two main Committees[2]: CEIC for Electronic Information and CWM for Women in Mathematics. Merrilyn Goos (UL) is Vice-President of ICMI, and with Maurice O'Reilly (DCU) Thérèse Dooley (UL) and others helped bring the major CERME10[3] conference, held in Croke Park in February 2017. The ICHM co-sponsored the Fifth Joint Conference of the British Society for the History of Mathematics and the Canadian Society for History and Philosophy of Mathematics held in TCD in July 2011. Romina Gaburro (UL) is local ambassador for the CWM, and related activity includes the annual Women in Mathematics Day.

In my opinion, continued Irish membership in the International Mathematical Union is vital for the health of Irish mathematics and for the reputation of the country. To cease participation would be to declare that we are just giving up. Granted, support within Ireland for research in basic science, particularly in mathematical science, and even more particularly in pure mathematics, is just lamentable, but we are not at rock bottom.

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[2] https://www.mathunion.org/activities/imu-commissions-and-committees
[3] https://www.mathunion.org/news-and-events/2017-02-01/cerme-10

Links for Postgraduate Study

The following are the links provided by Irish Schools for prospective research students in Mathematics:

DCU: `mailto://maths@dcu.ie`
DIT: `mailto://chris.hills@dit.ie`
NUIG: `mailto://james.cruickshank@nuigalway.ie`
MU: `mailto://mathsstatspg@mu.ie`
QUB: `http://www.qub.ac.uk/puremaths/Funded_PG_2016.html`
TCD: `http://www.maths.tcd.ie/postgraduate/`
UCC: `http://www.ucc.ie/en/matsci/postgraduate/`
UCD: `mailto://nuria.garcia@ucd.ie`
UL: `mailto://sarah.mitchell@ul.ie`
UU: `http://www.compeng.ulster.ac.uk/rgs/`

The remaining schools with Ph.D. programmes in Mathematics are invited to send their preferred link to the editor. All links are live, and hence may be accessed by a click, when read in a suitable pdf reader.

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