

**Presentation of the Digital School Journal: Revista Escolar de la Olimpiada
Iberoamericana de Matemática, Sponsored by the O.E.I.
Organización de Estados Iberoamericanos para la Educación, la Ciencia y la Cultura
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Abstract

The purpose of this paper is to present all participants of the Dresden Conference the digital School Journal *Revista Escolar de la Olimpiada Iberoamericana de Matemática*, online since May-June 2002, with almost 16,000 subscribers at current issue number 32. Subscribers are based all over the world, but mostly in Spain, Portugal and Latin America.

The Digital School Journal: Revista Escolar de la O.I.M.

Leading, mathematically speaking countries, have school journals with the purpose of popularising mathematical science, its teaching and learning. As examples we can quote Canada, with *Crux Mathematicorum*; Hungary, with *Kömal (Közepiskolai Matematikai Lapok)*; Romania, with *Gazeta Matematica*. The two journals last quoted have more than 100 years of life, starting in 1895. The situation in Spain and several countries of Central and South America was very different. Some small countries are not capable of publishing and distributing a mathematical journal that emphasises problem solving – showing different exercises and papers suitable for both students and teachers ranging from secondary school to university level.

Taking advantage of my experience of more than 10 years, from 1988 till 1997, in the International and Iberoamerican Mathematical Olympiads I presented the O.E.I. in 2002 the project of a digital journal, only distributed electronically, to cover the gap before mentioned. The project was accepted and the first issue of the journal appeared in May-June 2002. The URL is <http://www.oei.es/oim/revistaoin>.

All the papers and problems are written in one of the two official languages of the O.E.I., that is, Spanish or Portuguese. Materials submitted to the editor in other languages, such as English, French, German, Romanian, Bulgarian or Russian, are translated into Spanish. The materials must be sent to the editor to the emails fbellot@hotmail.com, franciscobellot@gmail.com, or the official email of the journal, revistaoin@oei.es. All issues of the journal are in .pdf format and they can be downloaded from the journal website for free (each article separated, or the full issue). Subscription is also free.

The journal is structured in the following sections: Articles, Notes and lessons of Olympiad preparation; Problems for the youngest; Problems of medium level and Olympiads; Problems; Mathematical Miscellany; Comments of web pages; Comments on published books. This list is open within limits, and therefore we are always ready to include new items in the journal. I would like to explain with some more detail these sections.

Articles, Notes and lessons of Olympiad preparation is a sort of Pandora box where all the mathematical papers can be included. Of course the idea is not to include research papers, which have specific journals to be published in; we can quote some of the papers we had published there: *Maxims and minimalis without derivatives*, by Abderrahim Ouardini (issue number 3); *Some theorems and its proofs*, by the late Juan Carlos Salazar from Venezuela, (issue number 13); *The Mathematical Open*, by Antonio Ledesma López, from Requena, Valencia, Spain (issue number 11); *Couples of heronian triangles with the same perimeter and the same area: a description*, by K.R.S.Sastry, from Bangalore, India (issue number 16); *A methodological proposal of early introduction of the concept of local approximation in its manifestation of tangent line, via the mathematical assistant*, by Pedro Vicente Esteban Duarte, from Medellín, Colombia, and Pedro Pérez Carreras, from Valencia, Spain, etc, etc.

Problems for the youngest is the section devoted to present problems for students from Primary Education up to Lower Secondary School. For example, in the last issue (number 32) we had presented the problems of the Kangaroo Mathematical contest 2007 for students 13-14 years old; and in other issues we published the problems from the Primary Education Mathematical Olympiad from Costa Rica (OMCEP), kindly sent to us by Dr. Víctor Buján Delgado, the Coordinator of that contest.

Problems of Medium level and Olympiads is a section which includes problems for students of Higher Secondary level; the problems from the National or International Mathematical Olympiad, or the Mediterranean Mathematics Competition, or the Balkaniada belongs to this section.

Problems is the section which includes problems up to the third year of University. Usually, five problems are proposed in each issue; from all received solutions, the editor chooses that the one that, in his opinion, is the best (or eventually the two best) for publication, with authorship design, also giving a list of solvers (name, institution – if any – and location). Up to issue number 32, we had published 160 problems. Anyway, the motto of this section is the same as appears in *Crux Mathematicorum*: No problem is definitely closed. The editor is always pleased to consider new insights or new solutions of an old problem.

Mathematics Miscellany (in Spanish the title of the section is *Divertimentos Matemáticos*) is a very versatile section. We had included in this section like *El tango del algebrista*, by Carlos Domingo, with the tune of the tango *Mano a mano*; the Spanish translation from German of *Die Ballade von armen Epsilon*, included in a book titled *Carmina Mathematica* (by Hubert Cremer, 1965); parodies of the bourbakist style; etc, but also short biographies of Iberoamerican mathematicians, prepared by the editor for another event and never used.

Comments of web pages and Comments on published books are self descriptive and require, in my opinion, no further explanation.

I invite everybody to access the journal web page, read some of the published issues or papers, and send me any collaborations which you may think suitable to be published. I promise to read all the material with extreme attention, and answer the author as promptly as possible. Thank you very much for your attention.

Valladolid, December 2008. Prof. Francisco Bellot Rosado