

PUBLISHER

OPUSCULA MATHEMATICA (ISSN 1232-9274) is published quarterly by
AGH University of Science and Technology Press, Cracow, Poland.
<http://dx.doi.org/10.7494/OpMath>

Guest Editor
Ana F. Loureiro
Canterbury, England

Technical Editor
Małgorzata Koch

Cover Design
Beata Barszczewska-Wojda

Typesetting and Desktop Publishing
Daniel Delimata

Cover: picture of Antoni Hoborski (1879–1940) – an outstanding mathematician, the first Rector Magnificus of the Mining Academy (1920–1922) and Dean of the Faculty of Mining, who died as a martyr in Konzentrationslager Sachsenhausen.

The printed version of the journal is the primary one.

Printed on acid free paper.

All rights of the printed work reserved. Unauthorized transmission in any form, photocopying, recording, re-use of illustrations and broadcasting of this publication prohibited.

© Wydawnictwa AGH, Kraków 2012
ISSN 1232-9274

Wydawnictwa AGH
al. Mickiewicza 30, 30-059 Kraków, Poland
tel. +48 12 617 32 28, tel./fax +48 12 636 40 38
email: redakcja@wydawnictwoagh.pl
<http://wydawnictwa.agh.edu.pl>

Nakład: 170 egz.