GEOGRAPHIA POLONICA



PUBLISHED by the Institute of Geography and Spatial Organization, Polish Academy of Sciences, Warsaw, Poland

Geographia Polonica is co-financed by the Ministry of Science and Higher Education under the INDEX PLUS Programme (2012-2014)

EDITORIAL OFFICE

Twarda 51/55, 00-818 Warsaw, Poland Phone +48 226-978-858, Fax +48 226-206-221

CONTRIBUTIONS and CORRESPONDENCE related to editorial matters should be sent to the Editor: geographia.polonica@twarda.pan.pl

© COPYRIGHT by the Institute of Geography and Spatial Organization,
Polish Academy of Sciences, Warsaw, Poland

Authors' submission of papers to the Geographia Polonica journal is tantamount to their expressing consent for the free publication of their papers by the Institute of Geography and Spatial Organization PAS in print, electronic formats and open Internet

SUBSCRIPTION INFORMATION: Geographia Polonica (ISSN 0016-7282 print)
is published quarterly
by the Institute of Geography and Spatial Organization,
Polish Academy of Sciences

SUBSCRIPTION ORDERS for Geographia Polonica can be placed with:

ARS POLONA, Obrońców 25, 03-933 Warsaw, Poland

www.arspolona.com.pl

ISSN 0016-7282 (print) 2300-7362 (online)

The primary version of the journal is the printed version

ACCESS TO THIS JOURNAL, information on the content and forthcoming issues are available free online at:

www.geographiapolonica.pl

Volume 87 • Issue 2 • edited by Marek WIĘCKOWSKI

PREPARED FOR PRINT by Studio DeTePe, Paweł Rusiniak PROOF CORRECTION
by Janusz Puskarz

PRINT

Poligrafia Salezjańska Michała Bałuckiego 8, 30-318 Krakow, Poland

CONTENTS

	Marek Więckowski Editorial	177
ARTICL	The achievements and future potential of applied quantitative	
	geography: A case study	179
	RAM BABU SINGH	
	Emerging frontiers, challenges and changing professional avenues for geographers in the contemporary world	203
	JOOP VAN DER SCHEE • JOHN LIDSTONE • CLARE BROOKS	
	Towards an international approach for geography education	213
	Udo Schickhoff • Mark A. Blumler • Andrew C. Millington	1
	Biogeography in the early twenty-first century: A science with increasing significance for Earth's changes and challenges	221
	Francis Harvey	
	A world without GIS? Post-GIS futures for the New Millennium	241
	Antoni Jackowski	
	Will geography remain geography? Pondering the state of geography	251
	LEX CHALMERS • KATHRYN BERG	
	Changes, challenges and responsibilities in geographical education: The International Geography Olympiad	267
VARIA		
	50 YEARS OF GEOGRAPHIA POLONICA • INTERVIEW	
	Leszek Antoni Kosiński • Przemysław Śleszyński	
	Geographia Polonica: A window onto the world. An interview with Professor Leszek Antoni Kosiński	277

CHRO	NICLE		
	Antoni Jackowski • Elżbieta Bilska-Wodecka • Izabela Sołjan	1	
	80 years after the 14th Congress of the International Geographical Union in Warsaw, 23-31 August 1934	295	
	Marek Barwiński • Tomasz Sawicki • Joanna Uroda Poles in the International Geography Olympiad (iGeo)	309	
POLAND ON MAPS Przemysław Śleszyński			
	Delimitation and typology of functional urban regions in Poland based on commuting, 2006	317	