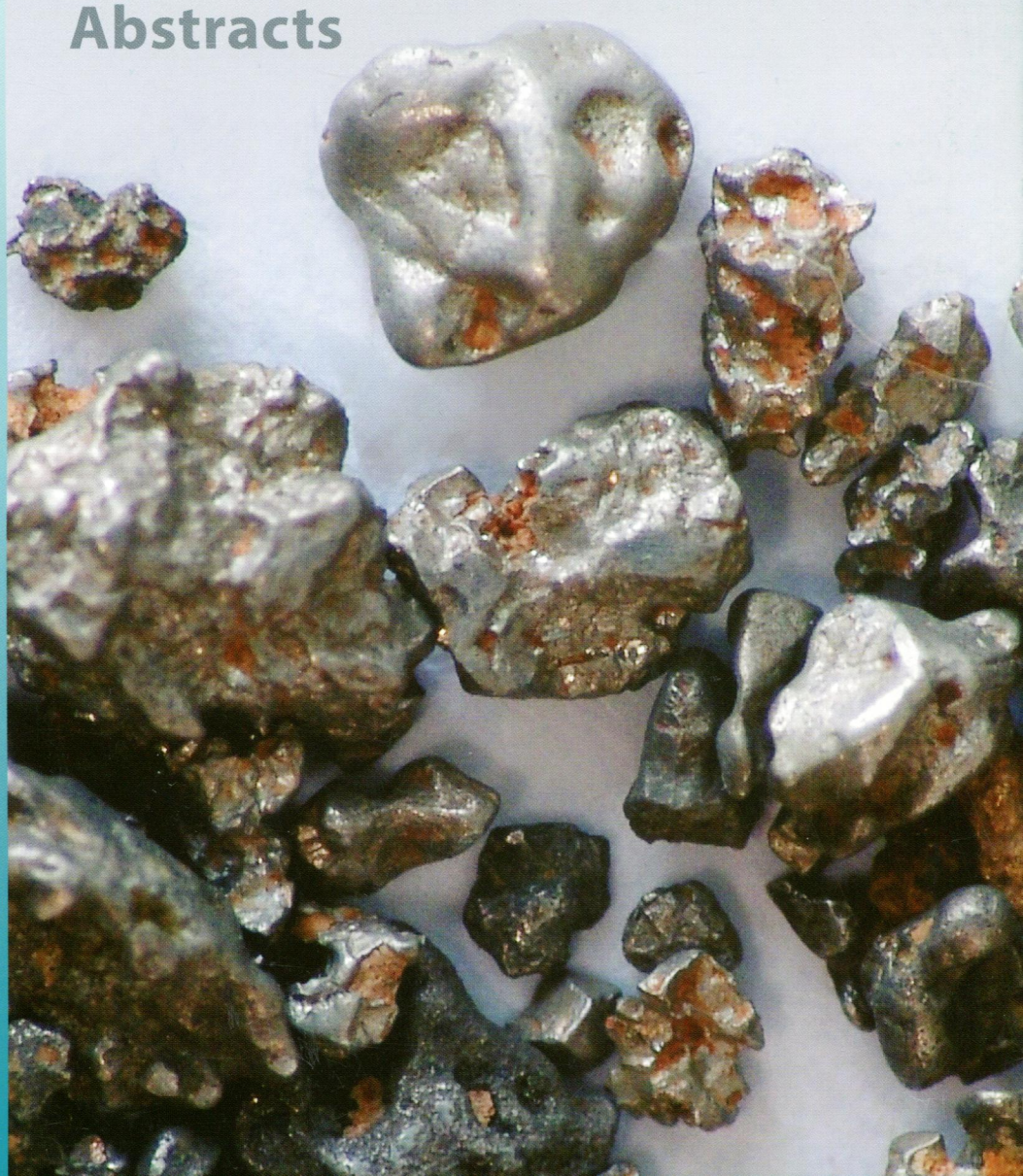
11 – 14 August 2014

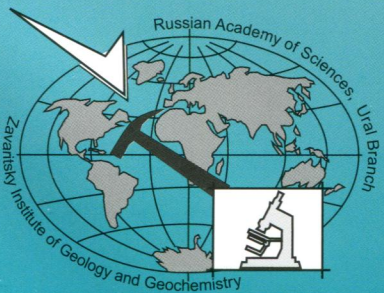
Yekaterinburg

Russia

12th International Platinum Symposium

Abstracts





Russian Academy of Sciences, Ural Branch
Zavaritsky Institute of Geology and Geochemistry
Ural Federal University
Russian Foundation for Basic Research
International Association on the Genesis of Ore Deposits
IGCP Project 592

12th International Platinum Symposium

ABSTRACTS

11 – 14 August 2014
Yekaterinburg, Russia

Yekaterinburg
2014

ББК 26.31

12th International Platinum Symposium. Abstracts (Edited by Anikina, E.V. et al.).
Yekaterinburg: Institute of Geology and Geochemistry UB RAS, 2014. 340 p.

ISBN 978-5-94332-109-2

Editors:
Anikina, E.V., Ariskin, A.A., Barnes, S.-J., Barnes, S.J., Borisov. A.A., Evstigneeva, T.L., Kinnaird, J.A., Latypov, R.M., Li, C., Maier, W.D., Malitch, K.N., Melcher, F., Pushkarev, E.V., Ripley, E.M., Votyakov, S.L., Vymazalova, A., Yudovskaya, M. & Zaccarini, F.

Abstract volume includes presentations of the 12th International Platinum Symposium focusing on different aspects of geology, geochemistry, mineralogy and exploration of various platinum-group element (PGE) deposits and occurrences from over a globe. A variety of presentations cover discoveries and evaluations of mineralized areas, descriptions of the host rocks, characterizations of different platinum-group mineral assemblages, and ideas on the processes that form PGE mineralization.

The materials of the volume are of a broad interest for geologists, earth scientists and students.

12th International Platinum Symposium is supported by Open Joint Stock Company «Mining and Metallurgical Company "NORILSK NICKEL"», The Amur Mining Company, Russian Foundation for Basic Research (grant 14-05-20091-g), International Association on the Genesis of Ore Deposits (IAGOD), Society of Economic Geologists (SEG),Society for Geology Applied to Mineral Deposits (SGA), IGCP Project 592, CAMECA, Russian Mineralogical Society (RMO), Interdepartmental Petrographic Committee, and Federal Agency of Scientific Organizations (FASO).

ISBN 978-5-94332-109-2

© IGG UB RAS, 2014
© *Authors of the abstracts, 2014*

TABLE OF CONTENTS

INTRODUCTION LECTURE

SESSION 1. MAGMA DYNAMICS, CUMULATES AND ORE GENESIS

SESSION 2. PGE MINERALIZATION IN MAFIC–ULTRAMAFIC INTRUSIONS OF RUSSIA: GEOLOGY AND PETROGENESIS

SESSION 3. PGE–CU–NI SUFIDE–BEARING ULTRAMAFIC–MAFIC INTRUSIONS OF THE NORIL'SK PROVINCE: INSIGHTS INTO ORE GENESIS AND EXPLORATION

SESSION 4. MODELS AND EXPLORATION METHODS FOR MAGMATIC NI–CU–PGE SULFIDE AND PGE–OXIDE DEPOSITS FROM AROUND THE WORLD

SESSION 5. OPHIOLITES AND URAL–ALASKAN–TYPE INTRUSIONS: TRADITIONAL AND INNOVATIVE LOOKS ON THE PGM FORMATION

SESSION 6. PGE AND AU THROUGH EXPERIMENTS

SESSION 7. NEW ADVANCES IN THE UNDERSTANDING OF PGE MINERALOGY FROM MAGMATIC TO SUPERGENE ENVIRONMENTS

SESSION 8. OPEN SESSION