

TABLE OF CONTENTS

	Page
Preface and Editorial Comments	5
Meeting Committee	7
I. Invited lectures	
Variscan belt tectonothermal evolution and the genesis of the Limousin vein type uranium deposits <i>M.L. Cuney</i>	15
Hydrothermal alteration of uranium-bearing accessory minerals – implications for the genesis of unconformity-type uranium deposits <i>L. Hecht & M. Cuney</i>	19
Mineralogy and geochemistry of uranium mill tailings <i>M. Pagel & S. Somot</i>	23
II. Geology, mineralogy and geochemistry of uranium deposits	
Ontogeny and typomorphic features of uranium mineralization at Mo-U deposits of the Streltsovskaya caldera (Transbaikalia, Russia) <i>A.P. Aleshin, V.I. Velichkin, M. Cuney, B. Poty & Yu.U. Dymkov</i>	29
Thermotectonics of Archean/Paleoproterozoic basement to the eastern Athabasca unconformity-type uranium deposits <i>I.R. Annesley & C. Madore</i>	33
U-Pb geochronology and petrochemistry of late Barramundi pegmatites from the Ranger U deposit, Northern Territory, Australia <i>I.R. Annesley, C. Madore, Y.Y. Kwok, S.L. Kamo, A. Troy & L. Hughes</i>	37
Mineralogical zoning of ore fields with various types of uranium mineralization (on the example of North Kazakhstan ore province) <i>G.I. Birka, N.I. Volkov & A. S. Shulgin</i>	41
The polymineral nature of uranium blacks <i>O.A. Doynikova, L.N. Belova, A.I. Gorshkov & A.V. Sivtsov</i>	45
Uranium mineralization in the Permian volcanic rocks at the Kravany, Kozie Chrbty Mts., Western Carpathians, Slovak Republic: Preliminary results <i>Š. Ferenc</i>	49
Thorium occurrences in the Czech Republic and their mineralogy <i>V. Goliáš</i>	53
Isotopic constraints on the age at the Schlema-Alberoda uranium deposit (Erzgebirge) <i>V.N. Golubev, I.V. Chernyshev, V.I. Velichkin, M. Cuney & B. Poty</i>	57
Evolution of ore-forming fluids along the Rožná-Olší shear zone, Bohemian Massif, Czech Republic: Implications for local uranium deposition and comparison with U-mineralization at Schlema, Erzgebirge, Germany <i>U.F. Hein, B. Lehmann, B. Kříbek & M. René</i>	61
Retrograde-metamorphic and hydrothermal alterations at the Rožná uranium deposit (Moldanubian Zone, Czech Republic) <i>B. Kříbek, P. Sulovský, M. Pudilová, A. Hájek & D. Holečky</i>	65

Uranium-bearing fluid composition at the Streltsovskoye and Antei deposits (Eastern Transbaikalia, Russia) <i>T.L. Krylova, A.P. Aleshin, V.I. Velichkin, M. Cuney, J. Pironon, A. Chabiron & B. Poty</i>	69
On the composition of ore-forming fluids at the vein-type uranium deposits of the Saxonian Erzgebirge (Germany) <i>T.L. Krylova, V.I. Velichkin, A.V. Timofeev, B. Poty, M. Cuney & J. Pironon</i>	73
Low-degree partial melting of metapelites – another possible implement for selective concentration of uranium: Example from the Rožná uranium deposit, Bohemian Massif <i>J. Leichmann, M. Matula, I. Broska & D. Holeček</i>	75
Uranium mineralization in the Lower Proterozoic Moeda Formation, Brazil: A mineralogical-scale study of the uranium budget <i>A.J. McCready & J. Parnell</i>	79
The Proterozoic uranium metallotect, Western Churchill Province, Canada: The role of polyphased thermotectonism and crustal-scale recycling in the formation of a uranium province <i>A.R. Miller</i>	83
Geochemical constraint on the genesis of uranium deposits hosted by paleokarst breccia in South China <i>Maozhong Min</i>	87
Precambrian uranium deposits as a possible source of uranium for the European Variscan deposits <i>I.G. Mineeva & A.S. Klotchkov</i>	91
The mineralogical zoning and ores types of the Elkon ore field (Saha-Yakut Republic, Russian Federation) <i>A. Nikolsky, G. Birka, A. Tarkhanov, Y. Menshikov, P. Pribytkov & A. Shulgin</i>	95
Modelling of fluid flow and heat transfer in volcanic calderas with implication to formation of uranium deposits <i>A.A. Pek & V.I. Malkovsky</i>	99
Structural, geochemical and isotopic evolution of uranium deposits in the Dornet ore field, Mongolia <i>V. A. Petrov, V. N. Golubev & V. A. Golovin</i>	103
The REE-U-Th distribution in hydrothermally altered rocks at the Rožná uranium deposit, Czech Republic <i>M. René</i>	107
Hercynian and Alpine remobilization of uranium from the Paleozoic volcano-sedimentary sequences in the Western Carpathians, Slovakia <i>I. Rojkovič</i>	111
Mineralogical and geochemical features of ore-forming conditions of endogenous uranium deposits in the Eastern Europe and CIS <i>A.V. Timofeev, I.V. Mel'nikov, T.L. Krylova, E.I. Kotov & G.D. Kiseleva</i>	115
A model of hydrothermal magmatogenous uranium ore formation <i>V.I. Velichkin, B.P. Vlasov, B.I. Omel'yanenko & A.V. Timofeev</i>	117
Secondary mineralization of the Rožná uranium deposit and their comparison with the Jáchymov ore district <i>F. Veselovský & P. Ondruš</i>	121

Uranium deposits of the Ronneburg ore field (Germany): Tectonic setting, localization conditions and genetic issues <i>S.F. Vinokurov, B.L. Rybalov & A.V. Timofeev</i>	125
Genetic model of the Rožná uranium deposit based on the stable isotope and fluid inclusion data <i>K. Žák, B. Kříbek, P. Dobeš, M. Pudilová, A. Hájek & D. Holečky</i>	127
Sandstone-type uranium deposits: Ore deposit models and ore formation mechanism <i>W. Zhou & T. Guan</i>	131
<i>III. Environmental aspects of uranium deposits</i>	
Microbial transformations of uranium and environmental restoration through bioremediation <i>A.J. Francis</i>	137
Pre-flooding investigations with special emphasis on rare earth elements at the former uranium-mining region of Ronneburg, Germany <i>J.W. Geletneky, D. Merten, S. Senitz & G. Büchel</i>	139
Ecological problems of uranium mining in the CIS <i>N.P. Laverov, V.I. Velichkin, I.N. Solodov, V.V. Novosel'tsev & A.V. Timofeev</i>	143
Mineralogy and acid-mine drainage of La Creusaz uranium prospect, Switzerland <i>N. Meisser, J. Brugger & Y. Lahaye</i>	147
The use of uranium fluxes as safety indicators of radioactive waste <i>W.M. Miller & P.J. Hooker</i>	151
Contamination of roads in Klatovy by natural radionuclides from waste rock dumps of the former uranium mine Ustaleč <i>M. Nekl & V. Goliáš</i>	155
Weathering of mine wastes after historical silver mining in the Jáchymov ore district (Czech Republic) and migration of uranium <i>D. Pittauerová & V. Goliáš</i>	157
Natural corrosion of old glass coloured with uranium compounds <i>R. Procházka, V. Goliáš, I. Hlásenský & J. Lněničková</i>	161
Radium behaviour during the diagenesis of Jouac uranium mill tailings (Haute-Vienne, France) <i>S. Somot, M. Pagel & F. Ruhlmann</i>	163
Simulation of dissolved uranium release from flooded underground mines under equilibrium conditions <i>S.M. Spiessl, M. Sauter, H.S. Viswanathan & C. Zheng</i>	167
Heavy metal complexes with organic ligands from surface waters of the uranium mining area in Ronneburg, Thuringia <i>M. Wengel & G. Gleixner</i>	171