



CERCAMS-9 Workshop

“Metallogeny of Central Eurasia from Altaids to Uralides – Research in Progress”

The Natural History Museum, London
29th-30th March 2007

This workshop addresses progress in collaborative research of the CERCAMS network and its associated researchers with focus on the Central Asian orogenic collage featuring state of the art research from the Altaids to the Uralides and adjacent domains. Since the launch of the CERCAMS Altaids project at the CERCAMS-7 workshop in March 2006, the project benefitted from supplementary contributions in-kind here presented. The CERCAMS-9 workshop marks the launch of Module-2 of the project extending the research to Central Asia and the Urals with the aim of synthesizing and reassessing interdisciplinary knowledge and catalyzing novel research in the architecture of the Altaids by bringing together teams from universities, academia and mining industry. There will be a series of invited presentations on tectonics, geodynamics and regional metallogeny.

The workshop is sponsored jointly by the projects IGCP-473 "*GIS metallogeny of Central EurAsia*" (leader R. Seltmann, NHM London/UK), IGCP-480 "*Tectonics of Central Asia*" (leader B. Natalin, ITU Istanbul/Turkey), and IGCP-486 "*Au-Ag-telluride-selenide deposits*" (leader N. Cook, NHM Oslo University, Norway), and by IAGOD.

Registration Costs (in UK £):

<i>CERCAMS Patrons (2 persons)</i>	<i>FREE</i>
<i>Full Registration</i>	<i>50</i>
<i>Registered Students</i>	<i>20</i>

To receive more information and register for this meeting please contact:

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www.nhm.ac.uk/mineralogy/cercams





Flett Lecture Theatre, Natural History Museum,
Cromwell Road, London, SW7 5BD
Enter through the Flett Theatre Entrance on Exhibition Road (before 10 a.m.)
or via the Earth Galleries Entrance (between 10 a.m. and 5.30 p.m.)

SCIENTIFIC PROGRAMME

DAY 1: 29th March (MORNING SESSION)

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08:30 Registration

08:50 Opening Address

09:00 Tectonic overview of the Paleozoic-Mesozoic evolution of
Central Asia - *Brian Windley*

09:45 Eastern Turkish high plateau as a small Turkic-type orogen:
Implications for post-collisional crust-forming processes in
Turkic-type orogens - *Celal Şengör, Sinan Özeren, Mehmet Keskin,
Mehmet Sakinç, Ali Değer Özbakır, İlhan Kayan*

10:30 COFFEE

11:00 Intracontinental mountain building and poly-deformation in the
Altay and Gobi Altay, Mongolia - *Dickson Cunningham*

11:20 The Erdenet porphyry copper-molybdenum deposit, Mongolia
Ochir Gerel & Baatar Munkhtsengel

11:40 Ore deposits and metallogeny of Southeastern Altay and
Northwestern Mongolia - *Alexander Borisenko, Evgeniy Naumov,
Alexander Obolensky, Galina Pavlova*

12:00 Geochronology of the Muruntau and Almalyk deposits using
Re-Os in arsenopyrite and molybdenite - *Robert Creaser, Ryan Morelli,
Reimar Seltmann, Torsten Graupner, Igor Golovanov*

12:20 New data from the study of orogenic gold deposits in the Southern
Tianshan - *Torsten Graupner, Ulf Kempe, Reimar Seltmann,
Samuel Niedermann, Reiner Klemd*

12:40 U-Pb SHRIMP dating of zircon from Hercynian granites in the Muruntau
area (Central Kyzyl Kum, Uzbekistan): implications and limitations
Ulf Kempe, Reimar Seltmann, Torsten Graupner, Sergey Sergeev

13:00 LUNCH



DAY 1: 29th March (AFTERNOON SESSION)

14:00 Accretionary tectonics of Kazakhstan: main features and principles of reconstruction - *Dmitriy Alexeiev & Kirill Degtyarev*

14:20 Crustal growth and metallogenic evolution of northern and central Kazakhstan: a review of the isotopic evidence - *Bernd Lehmann, Jan Heinhorst, Peter Ermolov, Ernst Hegner, Alfred Kröner*

14:40 Mineral deposits of the Uralides, their tectonic setting and possible correlations to the Altaid terranes - *Richard Herrington & Valery Maslennikov*

15:10 COFFEE

15:30 The Late Paleozoic gold-rich porphyry-epithermal ore-forming systems in the Kurama region, Middle Tien Shan - *Vladimir Kovalenker, Igor Chernyshev, Olga Plotinskaya, Vsevolog Prokofjev, Nikolay Akinfiyev*

15:50 The Berezhnyakovskoe Au-Ag-Te epithermal deposit (South Urals) *Olga Plotinskaya, Vladimir Kovalenker, Elena Groznova, Reimar Seltmann*

16:10 The Aktyuz-Boordu mining district: geodynamics and metallogeny - *Rosalia Djenchuraeva*

16:30 Gold containing deposits of Kyrgyzstan - *Valentin Nikonorov*

16:50 Tectonic polarity of the Tianshan during the Paleozoic: evidence from Pb-Sr-Nd isotope mapping, SHRIMP zircon geochronology and granite petrology - *Reimar Seltmann, Dmitry Konopelko, Alla Dolgoplova, Massimo Chiaradia*

17:20 DISCUSSION

ALTAIDS PROJECT Open Session:



09:00 CERCAMS Altaids Project, status of Module 1 (Eastern Altaids: Mongolia and China) and proposal for Module 2 (Central Asia, Kazakhstan, Urals) - *Reimar Seltmann & CERCAMS team*

09:30 CERCAMS Altaids project, Module 1 (Mongolia and China). Data model, data processing and follow-up research - *Robin Armstrong & CERCAMS team*

10:00 Continent-scale strike-slip zones and multispectral satellite imagery as a cartographic base in geological research, Central Asia - *Hugo de Boorder & Maarten Zeylmans van Emmichoven*

10:30 Terrane map of the Altaids Work in progress - *Alexander Yakubchuk*

11:00 COFFEE & POSTER

POSTER PRESENTATIONS:

Multispectral satellite imagery as a cartographic base in geological research, Central Asia - *Hugo de Boorder & Maarten Zeylmans van Emmichoven*

Frames of Russian crystalline shields geophysical approach to evaluation of mineral resources - *Sergei Cherkasov, Nicole Debeglia-Marchand, Daniel Cassard, Ekaterina Arbusova, Boris Sterligov*

Geological map of the new generation for Central Kazakhstan: ISTC collaborative research project - *Vjacheslav Serykh, Ivan Glukhan, Reimar Seltmann, Robin Armstrong, Nina Gridina, Illarion Kondrashenkov, Boris Selenko, Oleg Selenko*

A national project to estimate the natural resources in the area of construction of a trunk railway from the Northern Urals to the Polar Urals - *Alexander Kremenetsky*

DAY 2: 30th March



- 11:30 Correlation of gold-telluride deposits and other selenide- and telluride-bearing ore deposits. IGCP-486 activity in Central Eurasia - *Nigel Cook, Cristina Ciobanu, Rustam Koneev, Rosalia Djenchuraeva*
- 11:50 VSEGEI's role in developing and assessing the mineral resource potential of Central Eurasia. Results of national mapping programmes and international geological cooperation projects - *Oleg Petrov & Vitaly Shatov*
- 12:10 Large ore deposits of central Eurasia, their geodynamic and structural position and criteria for prognosis and prospecting - *Bulat Uzhkenov, Oleg Fedorenko, Mikhail Rafailovich, Alexander Smirnov, Victor Krasnoborodkin, Gennadiy Podkovirin*
- 12:30 Geological mapping and geochemical-geochronologic sampling of geotraverses across Mongolia & Inner Mongolia: methodology and impressions from three field expeditions, May-September 2006 - *Daniel Hennig, Robin Armstrong, Reimar Seltsmann, Alla Dolgopolova, Richard Herrington, Bernd Lehmann, Bayara Batkhishig, Ochir Gerel, Valentina Grebenchikova, Pavel Koval, Mao Jingwen, Wang Yitian, Zhang Hong*

CLOSING REMARKS

11:15 - 13:00 Closed Technical Session on ALTAIDS PROJECT for company sponsors (Merensky Room)

13:00 END & LUNCH