International Symposium

LARGE IGNEOUS PROVINCES OF ASIA: MANTLE PLUMES AND METALLOGENY

TENTATIVE SCHEDULE & PROGRAM

20 - 28 August 2011

Institute of the Earth’s crust
Siberian Branch of Russian Academy of Sciences

Irkutsk, Russia
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<th>Data</th>
<th>Event</th>
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<tr>
<td><strong>August 20</strong></td>
<td><strong>Saturday</strong></td>
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<tr>
<td><strong>Night &amp; Afternoon</strong> - Arrival participants to Irkutsk, accommodation in Hotel “Akademicheskaya” 12.00 – 14.00 – Registration (in the Institute of the Earth’s crust) 14.00 – 15.00 – lunch in café 15.00 – 18.00 – city-tour 19.00 – dinner / ice-break-party</td>
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<td><strong>August 21</strong></td>
<td><strong>Sunday</strong></td>
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<td>10.00 – 11.00 – Registration (in the Institute of the Earth’s crust) 11.00 – 12.00 - Irkutsk – Lake Baikal (by mini-buses) 12.00 – 14.00 - Baikal Museum 14.00 – 15.00 – lunch 15.00 – 17.00 - Open-air Museum “Taltci” (by mini-buses) 18.00 – return to Hotel (by mini-buses)</td>
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<tr>
<td><strong>August 22</strong></td>
<td><strong>Monday</strong></td>
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<td>Conference-hall of the Institute of the Earth’s crust 9.00 – 13.00 - opening ceremony / key-lectures on “An origin, age, and duration of the activity of large igneous provinces (LIP) and plumes of Asia” 13.00 – 14.00 – lunch in café 14.00 – 19.00 – Symposium “Tectonic, petrological and geochemical aspects controlling the location and activity of local magmatic complexes within large igneous provinces of Asia” 19.00 – 19.30 – Discussion</td>
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<td><strong>August 23</strong></td>
<td><strong>Tuesday</strong></td>
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<td>Conference-hall of the Institute of the Earth’s crust 9.00 – 13.00 - Symposium “Felsic LIPs and their role in global geodynamics” 13.00 – 14.00 – lunch in café 14.00 – 19.00 – Symposium “Mafic LIPs, metallogenic specialization of LIPs and the role of mantle plumes in the formation of unique mineral deposits of Asia” 19.00 – 19.30 – Discussion 20.00 - a conference banquet 14.00 – 19.00 – poster section in the hall of the Institute of the Earth’s crust</td>
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<td><strong>August 24</strong></td>
<td><strong>Wednesday</strong></td>
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<td>Morning – departure of participants (check-out time of the Hotel is 12.00) 10.00 – start of Field Excursion</td>
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TENTATIVE PROGRAM

August 22, 2011
Morning session

Key-lectures on “An origin, age, and duration of the activity of large igneous provinces (LIP) and plumes of Asia”

2. Pirajno F. GIANT CONTINENTAL RIFT SYSTEMS, «ORE-MAKING FACTORIES» AND MANTLE PLUMES: EXAMPLES FROM EASTERN AFRICA, SOUTHWEST SOUTHERN CENTRAL AFRICA AND AUSTRALIA
3. Kuzmin M.I. PLUMES AND METALLOGENY
4. Ernst R.E., Bleeker W. COMPARING THE LARGE IGNEOUS PROVINCE RECORDS OF NORTHERN CANADA AND SOUTHERN SIBERIA: EVIDENCE FOR A CA. 1.9 GA TO 0.7 GA NEAREST NEIGHBOUR RELATIONSHIP
5. Safonov Yu.G. IGNEOUS PROVINCES-PLUMES AND AURIFEROUS TERRANES OF THE TIAN SHAN
6. Puchkov V.N. PLUME TECTONICS+PLATE TECTONICS=GLOBAL TECTONICS?
Sklyarov E.V., Karyakin Yu.V., Kanakin S.V. IGNEOUS CARBONATES IN DOERITES OF FRANZ JOSEPH LAND ARCHIPELAGO (FJL): PETROLOGICAL AND GEODYNAMICAL IMPLICATIONS

NOTE: Invited Keynote Lectures are scheduled to maximum 30 min, including 5-10 min question time and Oral Session Lectures to 20 min, including 5 min question time.
August 22, 2011
Evening session

“Tectonic, petrological and geochemical aspects controlling the location and activity of local magmatic complexes within large igneous provinces of Asia”

3. Metelkin D.V., Ernst R.E., Hamilton M.A. PRELIMINARY EVIDENCE FOR A CA. 1640 MA MAFIC MAGMATIC EVENT IN SOUTHERN SIBERIA, AND LINKS WITH NORTHERN LAURENTIA
6. Kiselev A.I., Ernst R.E., Yarmoluk V.V., Egorov K.N. MIDDLE PALEOZOIC BASIC AND KIMBERLITE MAGMATISM IN THE SIBERIAN CRATON : RELATION TO PLUME-LITHOSPHERE INTERACTION
10. *Kruk N.N.*. RELATIONS BETWEEN PLATE AND PLUME TECTONICS FACTORS IN CAMBRIAN -ORDOVICIAN HISTORY OF CENTRAL ASIA (ON THE EXAM PLE OF GORNY ALTAI AND SURROUNDING AREAS)


August 23, 2011
Morning session

“Felsic LIPs and their role in global geodynamics”


7. *Osipova T.A.*. WHAT IS THE LIP-RELATED GRANITES IN THE URALS?

9. Batulzii D. THE LATE MESOZOIC EASTERN MONGOLIAN INTRACONTINENTAL RIFT ZONE BEHIND ARC ACCRETIONARY COMPLEX CONSTRAINTS A BACK ARC BASIN RIFTING
10. Zhantuev N.S. POSSIBLE MECHANISM OF DEVELOPING LARGEST IGNEOUS PROVINCES (LIPs)

August 23, 2011
Evening session

“Mafic LIPs, metallogenic specialization of LIPs and the role of mantle plumes in the formation of unique mineral deposits of Asia”

3. Makagon V.M., Zagorsky V.Ye. THE EAST SAYAN RARE-METAL PEGMATITE BELT AS RESULT OF INDEPENDENT STAGES IN THE HISTORY OF MAGMATISM WITHIN EAST SAYAN REGION
4. Damdinov B.B. ORE MINERALOGY OF THE KONEVINSKOЕ GOLD DEPOSIT (EAST SAYAN)
6. Mekhonoshin A.S., Kolotilina T.B. Ni-Cu-PGE SULFIDE DEPOSITS RELATED WITH NEOPROTEROZOIC PICRITIC MAGMATISM (SOUTHERN SIBERIA)
7. Abramovich G.Ya., Kuzmin M.I., Yarmolyuk V.V. PLUME MAGMATOGENE-ORE SYSTEMS IN THE SOUTH OF EASTERN SIBERIA
8. Rasskazov S.V., Mikolaichuk A.V., Simonov V.A. ZONING OF CRETACEOUS-PALEOGENE MAGMATISM IN TIAN SHAN
10. Yurkova R.M., Voronin B.I. MANTLE OPHIOLITE DIAPIR FORMATION IN ISLAND ARC-TRENCH PALEO ZONE

11. Simonov V.A., Yarmolyuk V.V., Kovyazin S.V. PECULIARITIES OF THE KUZNETSK BASIN BASALTS CRYSTALLIZATION: DATA ON MAGMATIC GLASSES AND CLINOPYROXENES

POSTER SESSION

1. Akhundjanov R., Mamarozikov U.D., Zenkova S.O. ORE -MAGMATIC SYSTEMS OF GRANITOID INTRUSIVES OF UZBEKISTAN


3. Badmatsyrenova R.A. ORIGIN OF IRON-TITANIUM OXIDE AND APATITE ROCKS, WESTERN TRANSBAIKALIA


8. Donskaya T.V., Gladkochub D.P., Mazukabzov A.M. LARGE PALEOPROTEROZOIC GRANITOID PROVINCE OF THE SOUTHERN SIBERIAN CRATON

9. Dyachkov B., Maiorova N., Mizernaya M., Chemenko Z. ORE-MAGMATIC SYSTEMS AND METALLOGENY OF TECTONIC STRUCTURES OF GREATER ALTAY

10. Efremov S.V., Borisenko A.S., Travin A.V., Ponamorchuk A.V. AGE AND GEODYNAMIC SETTING OF ULTRAPOTASSIC MAGMATISM ON CHUKOTKA


14. Gusev N.I., Gusev A.I., Shokalsky S.P., Vovshin Yu.E., Kruglova A.A. Timing (U-Pb, SHRIMP II) of Eastern Altai Granites Coeval to Siberian Super-Plume Activity, Their Geochemistry and Metallogeny


16. Khrustalev V.K. Tectonic and Geochemical Factors That Control Distribution and Ore Productivity of Local Rare Metal Magmatic Complexes Within the Angara-Vitim Batholith

17. Koneev R.I. The Kurama Volcanogenic Province (Uzbekistan): Metallogeny, Large Scale Deposits

18. Kotelnikov A.D., Vrublevskii V.V. Temporal Boundaries of Granitoid Magmatism Manifestation in South-Eastern Part of the Kuznetsk Alatau Ridge, SW Siberia


20. Kulikov V.S., Bychkova Ya.V., Kulikova V.V. Onegastructure—the Unique Representative of Paleoproterozoic Large Igneous Provinces of Fennoscandia

21. Letnikov F.A. Large Magnatic Granitoid Provinces As Indicators of Maturity Continental Lithosphere

22. Masaitis V.L., Mashchak M.S. The Siberian Platform: Recurrent Magmatic Events During 1,7 Ga

23. Medvedev A.Ya., Al’mukhamedov A.I. Silver in Permian-Triassic Volcanics of the Siberian Craton


29. Rosen O.M. 1GA SUPERPLUME HISTORY BENEATH THE SIBERIAN PLATFORM
30. Rotman A.Y. THE MAGMATIC ASSOCIATIONS OF THE SIBERIAN DIAMONDIFEROUS PROVINCE
31. Ryabov V.V., Travin A.V., Ponomarchuk V.A. GRANITES AND RELATED SILICATE ROCKS IN TRAP INTRUSIONS OF THE SIBERIAN PLATFORM (COMPOSITION, AGE AND MECHANISM OF FORMATION)
32. Sedov B.M. THE CRUST AND LITHOSPHERE STRUCTURES WITHIN THE MAGADAN SEGMENT OF OKHOTSK-CHUKOTKA VOLCANIC BELT
33. Sedov B.M. VERKHNE -OLSKOE DEPOSIT OF ORNAMENTAL STONES AS A UNIQUE PLACE TO IN VESTIGATE INTO THE ORIGINS OF AGATES AND CHALCEDONIES OF OKHOTIAN-CHUKOTIAN VOLCANIC BELT
34. Shevchenko B.F., Malyshev Yu.F., Romanovskii N.P. DEEP STRUCTURE OF GRANITOID MAGMATISM OF THE CENTRAL ASIAN BELT AND ALDAN STANOVOY SHIELD JUNCTION AREA
37. Soloviev S.G. «REDUCED» INTRUSION-RELATED TUNGSTEN-GOLD (W-AU-CU-BI) DEPOSITS IN THE RUSSIAN FAR EAST (PRIMORIE REGION)
38. Soloviev S.G. LATE PALEOZOIC SHOSHONITIC MAGMATISM AND RELATED DEPOSITS IN THE EASTERN TIEN-SHAN (KYRGYZSTAN)
42. Vasiliev V.I., Zhatnuev N.S., Vasilieva E.V., Sanzhiev G.D. THE PHYSICAL AND CHEMICAL COMPUTATION OF THE CONDITIONS OF OCEANIC PLATE DEHYDRATION UNDER THE SUBDUCTION AT RATES OF 1.0–5.0 CM/YEAR
POST-CONFERENCE FIELD TRIP: August 24 - 28, 2011

Title of excursion:
Large Igneous Provinces of Southern Siberian craton and adjacent areas of the Central-Asian Orogenic belt

The field trip will be guided by Dr. Sci. Dmitry Gladkochub (gladkochub@mail.ru), Dr.Sc. Andrey Tsygankov (tsygan@gin.bsc.buryatia.ru) and PhD Tatiana Donskaya (Tatiana_donskaya@mail.ru) and their colleagues from the Institute of Earth’s crust and Geological Institute (both of the Siberian Branch of Russian Academy of Sciences).

The field trip will allow participants to investigate following igneous complexes:

1) Paleoproterozoic LIP of post-collisional granitoids related to assembly of the Siberian craton and its incorporation into Nuna (Columbia) supercontinent;

2) Neoproterozoic mafic dyke swarm (LIP) related to Rodinia breakup (caused by superplume) and Siberia detaching from this supercontinent;

3) Late Paleozoic mafic and felsic LIPs of an active continental margin of the Siberian continent related to Mongol-Okhotsk ocean closure (early stage of the Central-Asian Orogenic belt development) or Mantle-plume produced;

4) Late Mesozoic extension-related mafic and felsic LIPs of developed stage of the Central-Asian Orogenic belt evolution;

5) Cenozoic basalts (volcano) of Baikal rift zone.
TRIP SCHEDULE:

August 24, 2011
Morning: Irkutsk – Listvyanka by bus (Departure time: 8:00 am, Arrival: around 9:30), distance ~70 km
Afternoon: Observation of Paleoproterozoic granitoids, Neoproterozoic and Late Paleozoic mafic dykes in southern coast of Lake Baikal (with boat along Old Siberian Railway)
Evening: Return to Irkutsk by bus (Departure time: 18:00, Arrival: around 19:30)
Accommodation in Hotel(s) (used during session), Dinner (20:00 – 21:00)

August 25, 2011
Morning: Irkutsk – Tunka by bus (Departure time: 8:00 am, Arrival: around 12:00), distance ~170 km
Afternoon: Observation of Cenozoic basalts (volcano) related to Baikal Rift development
Lunch in Arshan village (14:30 – 15:30)
Traveling from Arshan to Lake Baikal coast, distance ~250 km
Evening: Accommodation in Kultushnaya Tourist Camp (around 19:30)
Dinner (20:00 – 21:00)

August 26, 2011
Morning: Kultushnaya – Ulan-Ude by bus (Departure time: 8:00 am, Arrival: around 10:30), distance ~200 km
Afternoon: Accommodation in Ulan-Ude (11:00)
Cultural event (History and culture of Buryatia) – 11:00 – 13:00
Lunch (13:00 – 14:00)
Ulan-Ude – Shaluta village by bus - Field trip (via Largest Buddha Centre of Russia) on Late Paleozoic combined dykes and granitoids (Shaluta unit) (14:00 – 18:00), distance ~70 km;
Evening: Returning to Ulan-Ude by bus (18:00 – 19:00)
Dinner (19:30 – 20:30)
August 27, 2011
Morning: Ulan-Ude – Buluta quarry by bus (Departure time: 8:00 am, Arrival: around 10:30), distance ~ 70 km
Afternoon: Observation of Late Paleozoic dykes (LIPs subduction or mantle-plume related?) (10:30 – 15:30)
   Return to Ulan-Ude (15:30 – 17:30)
Evening: Banquet (18:30 – 19:30)

August 28, 2011
Morning: Ulan-Ude – Sotnikovo village by bus (Departure time: 8:00 am, Arrival: around 8:30), distance ~ 20 km
   - Observation of Mesozoic extension-related rock complexes (8:30 – 11:00) along the road Ulan-Ude – Irkutsk
Afternoon: Sotnikovo – Irkutsk by bus (11:00 – 19:30), distance ~450 km
   Lunch at 14:00 – 15:00 (in Café near the road)
Evening: Accommodation in Irkutsk (around 19:30 – 20:00),
   Dinner (20:30 – 21:30)