



6th INTERNATIONAL MAAR CONFERENCE
—maar and environment change

Changchun, Jilin Province, CHINA
July 30 – August 3, 2016

Program

Scientific Committee

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WELCOME

The organizing committee warmly welcomes you to the 6th International Maar Conference and to Changchun, China.

REGISTRATION

Onsite registration will take place at *First floor Lobby, Main Building of the South Lake Hotel of Jilin Province* from 09:30 to 20:30 on Saturday, 30 July 2016, and 09:00 to 17:00 on the other meeting days. The registration fee includes:

1. Conference registration, and abstract volume
2. Ice breaker (from 19:00 to 21:00 on Saturday, 30 July 2016, at *Purple Rose Restaurant, Main building of the South Lake Hotel of Jilin Province*)
3. Gala party (from 18:00 to 21:00 on Monday, 1 August 2016, at *Clear Moon Villa of the South Lake Hotel of Jilin Province*)
4. Intra-conference field trip (lunch, dinner, transportation and guidebook; 2 August 2016)
5. Coffee breaks
6. Congress bag and materials (not for accompanying persons)

Accompanying Person's fee includes:

1. Ice breaker (from 19:00 to 21:00 on Saturday, 30 July 2016, at *Purple Rose Restaurant, Main building of the South Lake Hotel of Jilin Province*)
2. Gala party (from 18:00 to 21:00 on Monday, 1 August 2016, at *Clear Moon Villa of the South Lake Hotel of Jilin Province*)
3. Intra -conference field trip (lunch, dinner, transportation and guidebook; 2 August 2016)
4. Coffee breaks
5. Special program with discounted fares

Note: Delegates are required to wear their name badge when access to all conference sessions, fields and catering.

CONFERENCE LUNCH AND DINNER

Delegates can have their lunches (from 12:00 to 13:30 on 31 July, 1 August and 3 August) at *No.2 Restaurant of Jilin University* with pre-purchased ticket providing by organizing committee. Delegates can also have their dinner on 31 July at the same place (*No.2 Restaurant of Jilin University*) from 18:00 to 20:00.

GENERAL INFORMATION

The **pre-conference field trip** to Arxan-Chaihe volcanic field is scheduled from 28 July to 30 July 2016. All the participants have to arrive at the front of Arxan airport in the morning of 28 July 2016 (the scheduled early morning flight from Beijing to Arxan airport on 28 July is OK).

The **intra-conference field trip** to Longgang volcanic field is scheduled for Tuesday, 2 August 2016. Please go to the gates of *South Lake Hotel of Jilin Province* and *HNA Redbuds Hotel Changchun* to take bus respectively by 07:30 am at the latest.

The **post-conference field trip** to Mt. Changbai volcano is scheduled from 4 August to 7 August 2016. Please go to the main gate of *Nanling Campus of Jilin University* to take bus by 08:30 am at the latest.

Note: During the morning of conference days (departing at 08:20 at the site of 'shuttle bus' (marked in the map) of South Lake Hotel of Jilin Province), **shuttle bus** is available from *South Lake Hotel of Jilin Province* to conference site. Delegates can also take the bus go back to *South Lake Hotel of Jilin Province* from conference site when the ending of conference or dinner of each day.

AIRPORT TRANSPORT

On the registration day, free shuttle bus (every 2 hours from 10:00 am to 18:00 pm) is available from airport to the registration site at *First floor Lobby, Main Building of the South Lake Hotel of Jilin Province*. Delegates arrived at other times should take a taxi (~150 RMB) or the shuttle bus from the airport to the conference site.

CONTACT INFORMATION

For any questions about the meetings please contact with Jing Wu by wujing@mail.iggcas.ac.cn (email) or [+86-13641383769](tel:+86-13641383769) (phone number, when you come across some difficult during the conference days).

USEFUL INFORMATION

Online abstracts

<http://www.intechopen.com/books>

<http://www.intechopen.com/books/6th-international-maar-conference-abstracts>

Water

In China, tap water is considered quite hard and needs to be boiled before drinking. Therefore, Tap water at all hotels in China is not drinkable. Inquire with hotel staff members when you check in. If you are unsure it is recommended you drink bottled water only or cool boiled water offered by hotels.

Power Supply

China uses 220 volt power supply for standard domestic and business purposes. Hotels generally provide wall sockets in every bathroom for razors and hair dryers, accommodating both “straight two-pin plugs,” and “triangular 3-pins plugs.”

If you wish to bring electric devices for use during your stay, a transformer, which can be bought in China for CNY100-200, is necessary. Most of the hotels in China have both 110V and 220V electrical outlets in the bathrooms, though in guest rooms usually only 220V sockets are available. As the shape of a socket varies between countries, a portable plug adaptor may also be necessary. It can be purchased from travel stores (such as Franzus) or electronics stores (i.e. RadioShack, Best Buy) in your local countries. Also you can buy it in China.

Insurance

The registration fee does not include insurance for the participants regarding accidents, sickness or loss of personal property. It is advisable that participants make their own arrangements in respect of health and travel insurance before leaving their countries.

Currency Exchange

In China, only RMB is used. However, exchange centers can be found at airports, most hotels and large shopping centers. When exchanging money, please keep your receipt by which you can change any remaining RMB back to foreign currency when leaving China. Visa, Master, American Express are accepted in many department stores and hotels. ATM could help you to get RMB cash from your credit card. Participants will need to show a passport and pay a 0.75 percent commission. Travelers' cheque signed over to a third party cannot be cashed in China, but can be presented for collection through the Bank of China.

DAY 1: Sunday, 31 July 2016-Room 516, Yifu Education Bldg.

Chaired by *Jiaqi Liu*

09:00-09:40 Opening Ceremony

09:40-10:00 Group Photo

10:00-10:20 Coffee break

Plenary conference

Chaired by *Yigang Xu*

Presenter	Title	Lecture time	Session
Jiaqi Liu-keynote	Study on volcanoes and maars in China	10:20-10:50	1
Bernd Zolitschka-keynote	Maar lake sediments and their potential for environmental and climate reconstruction: a global review	10:50-11:20	2
YounSoo Lee-keynote	Review of the Late Cenozoic tectonics of the North East Asia	11:20-11:50	1

11:50-13:30 Lunch break

Session 1: Monogenetic volcanoes: growth, geomorphology and degradation

Chaired by *Zhengfu Guo* and *Karoly Nemeth*

Presenter	Title	Lecture time	Session
Karoly Nemeth-keynote	Monogenetic volcanoes: a useful term for small volcanoes	13:30-14:00	1
Shane J. Cronin	The 2015 Surtseyan eruption of Hunga Ha'apai-Hunga Tonga, South Pacific	14:00-14:20	1
Xavier Bolós	Causes and mechanisms of phreatomagmatism in La Garrotxa Volcanic Field (NE Iberia)	14:20-14:40	1
Guido Ventura	Active seabed swelling and mantle degassing processes: the dynamics of sprouting volcanism in coastal areas	14:40-15:00	1

15:00-15:20 Coffee break

Session 1: Monogenetic volcanoes: growth, geomorphology and degradation

Chaired by *Ian Smith*

Presenter	Title	Lecture time	Session
Sergei Rasskazov	Control of volcanism in Asia by transtensional zones: change of sources at a lithosphere–asthenosphere boundary layer in the Wudalianchi field, China	15:20-15:40	1
Ioan Seghedi	Maar structures in Perşani volcanic field, SE Transylvania, Romania - a revised volcanological study	15:40-16:00	1
Peter Reynolds	The architecture and shallow conduits of Laki-type pyroclastic cones: insights into a basaltic fissure eruption	16:00-16:20	1

16:20-18:00 Poster time

Presenter	Title	Poster #	Session
Xavier Bolós	Reconstruction of a maar-diatreme features from borehole cores and logging	1	1
Sun Young Go	Eruptive Process and Internal Structure of the Songaksan Tuff Ring, Jeju Island, inferred from Componentry Analysis of Pyroclasts	2	1
Ian Smith	Interpreting compositional variations in the stratigraphic sequences of small scale basaltic volcanoes	3	1
Rickus van Niekerk	Monogenetic volcanism influenced by spatially and temporally confined eruptive environment changes in a coastal setting	4	1
Max van Wyk de Vries	Comparative semi-quantitative assessment of the geodiversity of monogenetic volcanoes	5	1
Bo Zhao	Study on C ¹⁴ age of Dawengquan volcano in Longgang volcano area	6	1
Hiroyuki Kitagawa	A sedimental record from a maar on the Pleiku volcanic Field in the central highland of Vietnam	7	2
Afsoon Moatari-Kazerouni	Implication of heavy mineral distribution based on U-Pb dating of detrital zircons by using LA-ICP-MS as a tool for provenance analyses in sediments of Jurassic / Cretaceous paleodrainage connections between Porcupine – Rockall – Orphan – Flemish Pass (PROF) basins	8	2
Chanwoo Sohn	Sedimentary record of a 4 ka B.P. storm event preserved within the rimbeds of a coastal tuff ring in	9	2

	Jeju Island, Korea		
Chunqing Sun	The first tephra evidence for a Late Glacial explosive volcanic eruption in the Arxan-Chaihe volcanic field (ACVF), northeast China	10	2
Jing Wu	New Evidence of Vegetation Change in Northeast China of Late Glacial based on the stomata record from Lake Moon	11	2
Mengming Yu	Geochemical signatures of the Pinglin tuff, Western Foothills, central Taiwan: constraints on thinning of continental lithosphere before South China Sea spreading	12	2
Lei Zhang	New evidence for the Yellow River intrusion into the Huaihe River	13	2
Leilei Ding	Pre-eruption history of silicic magma beneath the Tengchong Volcanic Field: a textual and mineral geochemical study of the Tengchong Drill Core	14	3
Liwu Li	The gas chemical and rare gas isotope compositions of two volcanic rock samples from Wudalianchi, China	15	3
Chang Whan Oh	The depth of magma chambers during the eruption of Baekdu Volcano	16	3
Won-Kyung Baek	Measurement of surface deformation on Mt. Baekdu/Chanbai by using Sentinel-1 SAR interferometry	17	4
Yoon-Ho Choi	Extraction of volcanic ash information using the polar orbit and geostationary satellite imagery: a case study of Sakurajima volcano	18	4
Seung Hwan Lee	A relation between the GRACE derived geoid variation and regional magmatic activities around the volcanic area	19	4
Ting Li	The Gas Geochemical Response of Magma Evolution of Changbaishan Tianchi Volcanic Region	20	4
Maoliang Zhang	Magma-derived CO ₂ emissions in the Tengchong volcanic field, SE Tibet: implications for deep carbon cycle at intra-continent subduction zone	21	4
Jinliang Gao	The Formation Mechanism and Distribution of Volcanic Hydrocarbon Reservoirs in China	22	5
Ilmars Gravis	From regional geopark to a UNESCO Global Geopark: community initiative with strong scientific support to evaluate the geoheritage and cultural values at Ihumātao, South Auckland, New Zealand	23	6

18:00-20:00 Dinner

20:00-21:00 Committee working meeting

DAY 2: Monday, 1 August 2016-Room 516, Yifu Education Bldg.

Session 1: Monogenetic volcanoes: growth, geomorphology and degradation

Chaired by *Karoly Nemeth*

Presenter	Title	Lecture time	Session
Ian Smith - keynote	The Geochemistry of small scale basaltic systems	09:00-09:30	1
Claus Siebe-keynote	Paleo-environmental and geological controls on Late Pleistocene phreatomagmatism in the lacustrine Zacapu basin (Michoacán, Mexico)	09:30-10:00	1

10:00-10:20 Coffee break

Session 2: Sedimentary sequence and paleoclimate record of Maar

Chaired by *Patrick Rioual* and *Bernd Zolitschka*

Presenter	Title	Lecture time	Session
Patrick Rioual	A review on diatom records of environmental change in maar lakes of the Long Gang volcanic field (Northeast China)	10:20-10:40	2
Mordechai Stein	Characterizing and tracing the dust sources of Lakes Sihailongwan and Huguang Maar in NE and SE China over the past 80 ka	10:40-11:00	2
Deke Xu	500-year climate cycles stacking of recent centennial warming documented in an East Asian pollen record	11:00-11:20	2
Xuanyu Chen	Cryptotephra: a powerful tool for independent correlation and precise dating of palaeoclimate records	11:20-11:40	2
Mi Eun Park	Distinction of magnetic fabrics produced by primary pyroclastic processes and contemporaneous storm-reworking processes in a coastal tuff ring, Jeju Island, Korea	11:40-12:00	2

12:00-13:30 Lunch break

Session 2: Sedimentary sequence and paleoclimate record of Maar

Chaired by *Mordechai Stein* and *Guoqiang Chu*

Presenter	Title	Lecture time	Session
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Bernd Zolitschka	Volcanic, climatic and anthropogenic forcing recorded in the Holocene crater-lake sediments of Laguna Azul (Patagonia, Argentina)	13:30-13:50	2
Guoqiang Chu	Abrupt and cyclic paleoclimatic changes since the last glacial maximum recorded in maar Lake Xiaolongwan, northeastern China	13:50-14:10	2
Cong Chen	A revised age model for the lacustrine records from Tianyang Maar Paleolake, south China	14:10-14:30	2

14:30-14:50 Coffee break

Session 3: Experiment and modeling of physical and chemical phenomena of volcanic eruption

Chaired by *Guido Ventura* and *Young Kwan Sohn*

Presenter	Title	Lecture time	Session
Guoming Liu	Impact Volcanism of El'gygytgyn Crater (Central Chukotka, Russia): Problems of Genesis	14:50-15:10	3
Hanfei Wang	How empirical models of volcanic eruption features depend on a Maar record	15:10-15:30	3
Shuangshuang Chen	Variations in the deep asthenospheric processes beneath the northeast Asian marginal region from pre- to post-opening of the Japan Sea	15:30-15:50	3
Gi Bom Kim	Bubble-pocket structure in the Millennium pumice: a new finding by the Korean-Chinese cooperative volcanic research group	15:50-16:10	3

16:10-16:30 Coffee break

16:30-17:30 Poster time

Presenter	Title	Poster #	Session
Xavier Bolós	Reconstruction of a maar-diatreme features from borehole cores and logging	1	1
Sun Young Go	Eruptive Process and Internal Structure of the Songaksan Tuff Ring, Jeju Island, inferred from Componentry Analysis of Pyroclasts	2	1
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	a coastal setting		
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Ting Li	The Gas Geochemical Response of Magma Evolution of Changbaishan Tianchi Volcanic Region	20	4
Maoliang Zhang	Magma-derived CO ₂ emissions in the Tengchong volcanic field, SE Tibet: implications for deep carbon cycle at intra-continent subduction zone	21	4
Jinliang Gao	The Formation Mechanism and Distribution of Volcanic Hydrocarbon Reservoirs in China	22	5
Ilmars Gravis	From regional geopark to a UNESCO Global Geopark: community initiative with strong scientific support to evaluate the geoheritage and cultural values at Ihumātao, South Auckland, New Zealand	23	6

18:00-21:00 Gala party at Clear Moon Villa of the South Lake Hotel of Jilin Province

DAY 3: Tuesday, 2 August 2016

Intra-conference field trip in the Longgang volcanic field, Guided by *Guoqiang Chu*

The **intra-conference field trip** to Longgang volcanic field is scheduled for Tuesday, 2 August 2016. Please go to the gates of South Lake Hotel of Jilin Province and HNA Redbuds Hotel Changchun to take bus respectively by 07:30 am at the latest.

Please find the detailed information in the appendix file.

DAY 4: Wednesday, 3 August 2016-Room 516, Yifu Education Bldg.

Session 4: Monitoring and prevention of volcanic hazards

Chaired by *Shane J. Cronin* and *Claus Siebe*

Presenter	Title	Lecture time	Session
Zhengfu Guo	Fluxes and genesis of greenhouse gases emissions from typical volcanic-geothermal fields in China	09:00-09:20	4
Qihong Jin	Identification of the optimal spatial unit for process-based terrain analysis in Mt.Changbai(Baekdu) volcanic region	09:20-09:40	4
Won-Jin Lee	Volcano Activity Monitoring of the NIMS using Remote Sensing data	09:40-10:00	4

10:00-10:20 Coffee break

Session 5: Resources of Maars and volcanoes &

Session 6: Maar volcano geopark: A spectacular engine for research and geotourism development

Chaired by *Sergei Rasskazov* and *Martin Koziol*

Presenter	Title	Lecture time	Session
Weigui Zhou	Cenozoic K-rich adakitic volcanic rocks in the Hohxil area: Lower-crust partial melting in an intracontinental setting	10:20-10:40	5
Vadim Khomich	Uranium deposits of paleonecks of the peripheral zones of the Great Xingan volcanic plutonic belt – indicators of large ore clusters	10:40-11:00	5
Eliecer Duarte	Hule and Rio Cuarto Maars, Costa Rica: Assessing Our Own Resources for a Collective Good	11:00-11:20	5
Martin Koziol	In the land of maar lakes and volcanoes: Geology as a driver of tourism!	11:20-11:40	6
Karoly Nemeth	Geoheritage values of monogenetic volcanic fields: a potential UNESCO World Heritage site in the Arabian Peninsula	11:40-12:00	6
Xiaomin Xun	The maar in the Leiqiong UNESCO Global Geopark	12:00-12:20	6

12:20-13:30 Lunch break

13:30-14:30 Round Table

14:30-15:00 Closing Ceremony

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