



International Symposium on Deep Earth Exploration and Practices

First Circular

The Organizing and Scientific Programme Committees of the International Symposium on Deep Earth Exploration and Practices (DEEP-2018) has the honor of inviting you to participated in:

**International Symposium on Deep Earth Exploration and Practices
in Beijing, CHINA
from 24 to 26 October 2018**

HOSTS, SPONSORS and COMMITTEES

Host

China Geological Survey of the Ministry of Land and Resources, China

Sponsors

SinoProbe Center, Chinese Academy of Geological Sciences (CGS)
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Background

Deep earth exploration is a multidisciplinary, complex undertaking whose aim is to understand the structure, dynamics and evolution of the Earth's continents and their margins. Earth is unique because of the presence of both liquid water and mobile tectonic plates. Interactions between of the tectonic plates have produced the continents and ocean basins that distinguish our planet and the mineral and fossil fuel resources that support our standard of living. Active tectonic processes are also responsible for devastrating hazards such as earthquakes and volcanic eruptions, and control Earth's surface topography, which fundamentally affect the climate, environment and our modern life. Therefore, to study the lithosphere and deeper interior of the Earth and to gain fundamental insights into how the Earth operated is of common interest to geoscientists worldwide.

SinoProbe is one of the great programs in this field which has been funded by the Chinese Government with unprecedented scope and scientific ambition. The overall aim of SinoProbe is to take a multidisciplinary approach in studying the composition, structure and evolution of the continental lithosphere of the Chinese continent. SinoProbe-I, as the initial phase of SinoProbe, was launched in 2008, followed by the ongoing program of DREAM-Deep Resources Exploration and Advanced Mining as from 2016, before SinoProbe-II will begin in the coming years. SinoProbe-I provided researchers with rich data sets to image, sample and monitor the continent and underlying mantle at a resolution never before attempted. It outlined a wide range of exciting scientific research directions to be explored in the coming decade, enabled the scientists to make important breakthroughs and discoveries, and answer or pose outstanding questions.

In November 2011, an International Symposium on Deep Exploration into the Lithosphere (ISDEL) was held in Beijing. Nearly 300 geophysicists and geologists from the United States of America, Canada, Australia, Germany, Italy, Ireland, and China attended this meeting. Some of these were principal and co-principal investigators of international deep exploration projects such as COCORP and EarthScope of the United States, LithoProbe of Canada, AGCRC of Australia, DECORP of Germany, and CROP of Italy. For the International Symposium on Deep Earth Exploration and Practices (DEEP-2018), emphasis will not only be on updated progress of SinoProbe-I, but will also focus on recent research on the lithosphere across the world. The meeting will serve as a platform where participants exchange ideas on progress in deep exploration of the lithosphere, better understand deep processes in the earth, expand the new knowledge into practical applications, consider the future and promote international collaboration on deep exploration of the Earth. DEEP-2018 will offer an unprecedented opportunity for international collaboration within the earth sciences. It will also be a good time to introduce SinoProbe- II , the new proposal and deployment as part of the ambitious Chinese National Scientific Program until 2030.

SCIENTIFIC PROGRAMME

Topics

The major preliminary topics are as follows:

- Progress and summary of major deep exploration programs
- Lithospheric structure and deep dynamics of the Qinghai-Tibet Plateau and adjacent areas
- Crustal deep structure and evolution across orogenic belts
- Deep continental scientific drilling
- Monitoring of active processes at depth
- Mineral resource and deep processes
- Geohazards and deep processes
- Techniques and methods of deep exploration into crust and mantle
- Evolution of the North China Craton in the early Precambrian as revealed by deep earth exploration
- Call for new proposal of international collaboration with SinoProbe-II

Any further suggestions for topics, conveners and keynote speakers are welcome. Please send your proposals to zhouqi@cags.ac.cn before 1 March 2018. Your suggestions will be taken into consideration. The final topics will be decided by the numbers of abstracts received.

Abstracts and Papers

The abstract submission tool will be open online at <http://deep.sinoprobe.org/> as from **20 March 2018**. The deadline to submit your abstract is **1 September 2018**. Only registrants to DEEP-2018 may submit abstracts. The abstract shall not exceed two A4 pages including photos, figures and references.

Abstracts will be published before the symposium, and research papers contributed to the symposium will be recommended to international journals for publication after the symposium. The full text of papers shall be written in accordance with relevant requirements of the Journals, such as *Tectonophysics*, *Asian Journal of Earth Sciences*, *Lithosphere*, *Economic Geology*, *Science of China Earth Science*, *Acta Geologica Sinica (English Edition)*, etc.

Presentation of Papers

The Scientific Programme of DEEP-2018 will consist of Colloquia, Symposia, and Workshops. Colloquia papers will be invited by the Organizing and Scientific Programme Committee. All scientific sessions will consist of oral and poster presentations. Oral and poster sessions will carry equal weight regarding the quality and level of contributions.

Authors may choose either the oral or poster form for presentation of their paper. The Organizing and Scientific Programme Committees will consider the author's preference for oral or poster session, but the final decision will be made by the Committee.

Each oral presentation will be 20 minutes including 5 minutes for discussion. Each meeting room will be provided with a computer with Windows system, projector and screen. A Microsoft PowerPoint file is suggested for oral presentation.

Poster Sessions

Poster Sessions will be arranged for part of DEEP-2018 contributions. Poster presentation and discussion should be in English.

The maximum dimensions of each poster presentation are 120 cm high and 180 cm wide. Posters will remain in place for two and a half days.

Pre-Meeting Workshop

A one-day workshop on Geological Interpretation of Seismic Profiles and Complementary Data will be held before the symposium. The objective is to help geologists and geochemists to use seismic reflection images in their reconstruction of the geological history of crustal terranes. This meeting will bring together geophysicists, geologists and geochemists to discuss the interpretation of recently completed SinoProbe and other relevant deep seismic profiles.

Seismic reflection profiles provide the highest resolution images of the structure of the Earth's crust and lithospheric mantle. Particularly valuable are the images of the lower continental crust and upper mantle that are not accessible to direct geological observation. Seismic profiles are also valuable for geological interpretations of crustal composition and crust-mantle structural relationships. Increasingly, high-quality seismic profiles document reflectors in the uppermost mantle that may reveal past plate tectonic processes.

The value of deep seismic reflection data is greatly increased when complemented by other types of seismic information (e.g. seismic refraction, passive tomography, receiver functions) and non-seismic geophysical observations, including gravity, magnetics, geo-electrical and paleomagnetic results. The joint interpretation of geophysical data sets provides the most reliable models of the structure and composition of the crust. Tectonic reconstructions of crustal evolution require that the geophysical data be interpreted in combination with related geological and geochemical data.

Field trips

One pre-symposium field trip or two post-symposium field trips are under preparation for DEEP-2018. These field trips are preferentially for foreign participants. Details will be provided online. We encourage all foreign field trip participants to purchase personal accident insurance in their home countries.

Invitation for Exhibition

DEEP-2018 will provide an exhibition venue for business and non-profit organizations to make direct contact with academia, government, private sector and the international community. This should be a great opportunity to "Generate Leads, Build Your Brand, Enhance Your Knowledge, Meet the Industry, Launch New Products".

For more details and questions, please pay attention to the website or contact the Secretariat of DEEP-2018.

GENERAL INFORMATION

Working Language

The working language of DEEP-2018 is **English**. All abstracts, papers, and presentations should be in English.

Registration

To register please complete the Registration Form and submit your abstract at <http://deep.sinoprobe.org/> after 20 March 2018.

Registration fees

- Foreign delegates must cover their international return air tickets as well as board and lodging. Registration fees will be sponsored by the organizer.
- We shall provide international air tickets, free registration or/and free accommodation during the symposium, or/and field trip expenses for invited foreign speakers, conveners or keynote workshop speakers.
- Domestic delegates shall cover their board and lodging, transportation and registration fees.

	Payment (Without Workshop)	Payment (With Workshop)
Participating Member	2200 RMB	3000 RMB
Student Member	800 RMB	1200 RMB

Conditions for Membership in the symposium

Rights and privileges	Overseas Participating Member	Domestic Participating Member	Student Member
Opening and Closing ceremonies	+	+	+
Reception Dinner	+	+	
Scientific Sessions	+	+	+
Field Trips	+		
Social Programme	+		
Workshop	+	+	+

Visa and Accommodation

Registrants who are not entitled to visa exemption by agreement between China and the country concerned should hold valid passports and contact their travel agent or the Chinese Embassy, Consulate or other representative agency in their country or region regarding the need for visas to enter the People's Republic of China.

Visa Application

To apply for visas, registrants may be requested by the Chinese Embassy or Consulate to submit a letter of invitation. Therefore please send us the following information including accompanying member as soon as possible which will enable us to send you an invitation letter **specifically for visa application.**

1. Full name (family name, given name and others in that order).
2. Birth date (day/month/year).
3. Nationality.
4. Name of your institution and your position there.
5. Address, phone number, fax number, E-mail, etc
6. Passport number.
7. City where you will apply for the visa (Embassy/ Consulate)

Accommodation in *****

The reserved hotel for DEEP-2018 will be arranged which would be the same hotel as the symposium. The accommodation fees will be paid by participants. We shall provide further information at <http://deep.sinoprobe.org/> after 20 March 2018.

NOTICE

Key Dates and Deadlines

20 March 2018, accepting on-line registration and abstract submission.

<http://symposium.sinoprobe.org/>

1 June 2018, delivering the 2nd Circular

1 September 2018, end of abstract submission.

10 October 2018, delivering the 3rd Circular.

20 October 2018, delivering the Scientific Programme online.

Contact Information

All inquiries and general correspondence concerning DEEP-2018 should be addressed to:

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