"DEEP-2021" First Circular

(May, 2021)

The Organizing and Scientific Programme Committees of the International Symposium on Deep Earth Exploration and Practices (DEEP-2021) are honoured to invite you to participate in:

International Symposium on
Deep Earth Exploration and Practices
China, from26 to 31 October, 2021

At this time, DEEP-2021 is planned as a "hybrid" meeting, aimed to optimize both in-person and worldwide virtual participation and to present a good experience for all attendees. Join us for DEEP-2021. More information will follow shortly on https://2021.sinoprobe.org.

HOSTS

China Geological Survey of the Ministry of Natural Resources of China

National Natural Science Foundation of China

INITIAL SPONSORS

SinoProbe Center
Chinese Academy of
Geological Sciences (CAGS)

International Union of
Geological Sciences (IUGS)

International Lithosphere
Program (ILP)

International Continental
Scientific Drilling Program
(ICDP)

American Geophysical
Union Seismology Section

Society of Economic
Geologists

The Helmholtz Centre Potsdam
- GFZ German Research
Centre for Geosciences

K.P.KARPINSKY Russian
Geological Research

More is TBC

BACKGROUND

Deep Earth exploration is a multi-disciplinary, complex undertaking aimed at understanding the structure, dynamics and evolution of the continents and their margins. Interactions between Earth's tectonic plates produced the continents and oceans that characterise our planet while creating the mineral resources that support our standard of living. Active tectonic processes are also responsible for devastating hazards such as earthquakes and volcanic eruptions, and control Earth's surface topography, which fundamentally affect the climate, environment and our modern life. Therefore, it is of common interest to society worldwide to study the interior of the Earth and to gain fundamental insights into how our planet operates.

SinoProbe is funded for Earth exploration with an unprecedented scope and ambition by the Chinese Government. The overall aim of SinoProbe is to take a multi-disciplinary approach in studying the composition, structure and evolution of the continental lithosphere of China. SinoProbe-I, the initial phase of SinoProbe, was launched in 2008 and was successfully completed in 2016. This was followed by DREAM (Deep Resources Exploration and Advanced Mining) from 2016-2021 and Deep Geological Survey since 2016. These projects have provided researchers with rich data sets to image, sample and monitor the continent and underlying mantle at a resolution never before possible. These projects have enabled the scientists to make important breakthroughs and discoveries. The achievement of the past years have outlined a wide range of exciting scientific research directions and defined new questions to be addressed by SinoProbe-II

SinoProbe-II（2021-2030）a national strategy of "Deep Earth" is a major program for scientific and technological innovation. It will include acquisition over the Chinese continent and abroad of 20,000km of seismic reflection profiles, high density broad-band seismological data with a30x30kmstation density, and MT data at1°x1°, as well as super-deep scientific drilling and observations. SinoProbe-II will also co-initiate the Global Probe project, the "Earth CT", with prominent organizations that include the ILP, IUGS, IUGG, ICDP, DCO, GFZ, and VSEGEI. Universities and institutes from a large number of countries will also contribute to this multi-lateral joint Earth science research.

SinoProbe insists on an "open door policy" in international communication and cooperation. In October 2018, the

DEEP-2018meeting was held in Beijing. About 350 geophysicists and geologists attended from the United States of America, Canada, Russia, Australia, Japan, Germany, Italy, Spain, Sweden, Denmark, Turkey, Poland, United Kingdom, Ireland, India, Singapore and China. Some international attendees were principal and co-principal investigators of international deep exploration programmes, such as COCORP and EarthScope of the United States, LithoProbe and CCArray of Canada, AGCRC of Australia, and EuroProbe, TopoEurope, and AlpArray of Europe.

DEEP-2021 will emphasise recent global research on the deep Earth. The meeting will serve as a platform where participants can exchange ideas on progress in deep exploration of the lithosphere, better understand of deep processes in the Earth, expand the new knowledge into practical applications, and consider international collaboration on deep exploration of the Earth. DEEP-2021 will offer an unprecedented opportunity for establishing international collaboration within the earth sciences. SinoProbe-II will look for close partnership and collaboration through the DEEP-2021 platform, aiming for integration of exploration and research of critical geological study areas worldwide, and contributing to the international sharing of exploration data and results, with the overall objective of enhancing our knowledge of the Earth.

SCIENTIFIC PROGRAMME

Topics
The theme of DEEP-2021 is "New Collaborations in Deep Earth Studies".

The major preliminary topics are as follows:
1. Which critical areas of the Earth are still largely unexplored by deep lithospheric surveys (Global deep exploration programs)?
2. Lithospheric structure and deep dynamics (the Qinghai-Tibet Plateau and adjacent areas）
3. Lithospheric deep structure and evolution across orogenic belts
4. Deep earth material probing and isotopic mapping
5. Deep scientific drilling: engineering and opportunities
6. Mineral resources and deep processes
7. Geohazards and crust deformation

8. New techniques and methods of deep exploration into crust and mantle

9. "Earth CT": A new initiative of global exploration into deep Earth within the framework of the ILP coordinating committee on Global Geo Transects (GGT)

Based on the preliminary topics, we **CALL** **for session proposals**. Each session proposal must include session title, short description within 300 words, intending conveners and keynote speaker(s). Please send your proposals to 1437922567@qq.com and sinoprobe@cags.ac.cn **before 20 May, 2021**. Your suggestions will be taken into consideration. The final session will be decided by the numbers of abstracts received.

Abstracts and Papers

The abstract submission tool will be open online at https://2021.sinoprobe.org/ from **10 June 2021.** The deadline to submit your abstract is **1st August 2020**. Only registrants to DEEP-2021 may submit abstracts. The abstract shall not exceed twoA4 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, Acta Geologica Sinica (English Edition)*, etc.

Presentation of Papers

The Scientific Programme of DEEP-2021 will consist of Colloquia, Symposia, and Workshops. Colloquia papers will be invited by the Organizing and Scientific Programme Committees. All scientific sessions will consist of oral and poster presentations. Oral and poster sessions will carry equal weight regarding the quality and level of the contributions.

Authors may choose either the oral or poster form for presentation of their contribution. 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.

All DEEP-2021 sessions and events will be held in a virtual platform. Only registered attendees will be able to access all of scientific content, from posters to general sessions. With more than 200 attendees from over 20 countries, we also offer numerous opportunities for you to

network to meet new colleagues and friends. For most sessions, longer pre-recorded presentations and virtual posters will be available for attendees to view when the meeting begins on 26 October, 2021. The live sessions will focus on short overview presentations and moderated discussions. These discussions will also be recorded and available during the dates of the meeting. This structure maximizes engagement and the ability for broad participation across time zones.

Further guidelines for each session type will be given on https://2021.sinoprobe.org. Resources and instruction are also available to all presenters to ensure a successful presentation at the DEEP-2021. Please view the coming site for more information.

Meeting Platform

Most of the sessions and other events at the DEEP-2021 will make use of VooV(https://voovmeeting.com/) and VooV webinar. In joining these, all attendees will be offered the option of using a web browser rather than the VooV app. Most major participant functions are supported in the browser, including sharing screens, chat, and breakout rooms.

INVITATION FOR EXHIBITION

DEEP-2021 will provide online show pages 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 see the website.

GENERAL INFORMATION

Working Language

The working language of DEEP-2021 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://2021.sinoprobe.org/ after **10 June, 2021**.

Registration fees

- No registration fees for all virtual meeting delegates
- The exhibition fees will be charged as main sponsor fees or moderate sponsor fees. The name of exhibitor will be listed according to the different type of sponsors. Please contact 1437922567@qq.com for discussion.
- Domestic delegates shall cover their own board and lodging, transportation and registration fees for the in-person meeting. More information about in-person meeting participation will be provided later.

<u>MILESTONES</u>

1、 General Scientific Sessions: Call for proposals Due 20 May, 2021

2、 DEEP-2021 Website Online and Registration: From 10 June, 2021

3、 Online Abstract Submission: From 10 June Due 1 August, 2021

4、 Programming by conveners and Scientific Committee: From 1 August Due 10 September

5、 Upload pre-meeting presentations which include oral, poster, exhibition: From 20 September Due15 October

6、 DEEP-2021, 26-31 October

CONTACT INFORMATION

All inquiries and general correspondence concerning DEEP-2021 should be addressed to:

1. **Scientific Proposal, Abstract, Program and Exhibition Inquires**

   Ms. Zhou Qi

   Email: 1437922567@qq.com, sinoprobe@cags.ac.cn ,

   Tel:+86-10-68999617

   SinoProbe Center, CAGS

   Baiwanzhuang Road 26, Beijing 100037, CHINA

2. **International Affairs and Cooperation Inquires**

   Ms. Li Wei

   Email: dic@cags.ac.cn, cagsdic@163.com

   Tel: +86-10-68999619

   Department of International Cooperation of CAGS

   Baiwanzhuang Road 26, Beijing 100037, CHINA