Prithvi is largest symposium of Earth Science in India with participations from over 100 Universities and colleges all over the country. It is an endeavor to motivate the youth in the field of Geo-Sciences by providing a platform to the youth to showcase their talents and skills in fierce competitions, display cutting-edge technologies and research from all over the globe.

It is an initiative of the IIT Kharagpur Student Chapters of the Society of Exploration Geophysicists (SEG) in association with the American Association of Petroleum Geologists (AAPG) and the Society of Petroleum Geophysicists (SPG), along with the students of the Department of Geology and Geophysics of the Institute. Born in 2009 with the motto of promoting technology, scientific thinking and innovation, Prithvi has surpassed 9 golden years of creating an unmatched aura of a science and technology spectacle year after year.

The 9th edition of Prithvi was inclined towards “Envisaged future hurdles and solution in harnessing conventional sources”. It was held from 16th to 18th March 2018, with all new challenging competitions, workshops, exhibitions and guest lectures focusing on exploration and various earth science fronts.
PRITHVI EVENT

Explain

The participants put their grey cells to work with Explique. With Prithvi-18 they were provided a platform to present their views/understanding on the listed topics. They mesmerized the audience with the presentations of their unique ideas. Various topics were discussed under the following categories:
1. Energy Resources
2. Geographic and Geoscience Information Systems (GIS)
3. Unconventional Resources - Challenges in exploration and production
4. Recent advances in seismic data processing and interpretation
5. Data Assimilation and Data Integration in geoscience
6. Geological Structural Controls on the Groundwater Flow
7. Evolution of tectonics fault systems and their interactions
8. The patterns and causes of trace element distribution in igneous and metamorphic rocks

Gridnite

Gridnite offered the participants a challenging as well as a fun experience as an overnight event where participants were given the grid the evening before and the answers will be collected the following morning. Participants used their creativity and presence of mind with the provided grid, which carried words related to Earth Sciences. After close to 90 entries came in, the winners were decided on the basis of the many geologically meaningful sentences using these keywords, that they had created.

Results:
- 1st Prize: NIT Rourkela (Tamal, Samarendra)
- 2nd Prize: Jadavpur University (Arif Khan, Avirup Bose, Masod Rana)
- 3rd Prize: Jadavpur University (Sayensen, Sayak Ghosh)

Poster Presentation

The event Poster Presentation in which recently published papers or on-going research/projects in the field of Geoscience is upheld in the form of posters. Typically, posters include both textual and graphic elements, although a poster may be either wholly graphical or wholly textual.

Posters are designed to be both eye-catching and convey information. Amongst many registered participants, teams were formed and each team was allotted 2 min duration to pitch in front of the judges, wherefrom 8 teams were shortlisted for the final rounds.

Poster Presentation Results:
- 1st Prize: Sarthak Mishra, Dharanidhar Autonomous college
- 2nd Prize: Kuttushino Sengupta, Jadavpur University
- 3rd Prize: Arka Chakraborty, Asutosh College

Indiana Geones

Indiana Geones was a treasure hunt event organised for the budding young Geoscientists who fashion themselves as modern Indiana Jones. The task involved using geophysical prospecting tools to locate objects whose expected geophysical properties are known. The instruments and data processing equipment were provided.

The design of the survey/experiment and its successful execution was the key challenge. The teams set to the task on 17th March 2018, the 2nd day of the fest beginning at 10:00 AM, however the complete solution was found by only one team which hailed from IIT Kharagpur.

Indiana Geones Results:
- 1st Prize: Yeshwantth, Anna University, Tamil Nadu
- 2nd Prize: Ayush Chandra, IIT KGP
- 3rd Prize: Biju Dutta, IIT (ISM) Dhanbad
GEO – Spectrum

Geo-spectrum is a Quiz competition which tests the participant’s squeezing aptitude on a broad spectrum of subjects from Earth Sciences. Though major emphasis was on exploration, it touches many other facets of Geo–Sciences with a very interesting format.

It was held in two phases. The first phase was the written round and the next phase comprised of oral questions including audio and visual rounds. This checked the command of participants over the wider range of subjects.

Geo-spectrum results:
- **1st Prize**: Shubham Singh, Anuradha Lalwani, Ashish Kumar Rai, Vikas Yadav (IIT(ISM)Dhanbad)
- **2nd Prize**: Swarendu Dutta, Desh Deepak, Shivam Tiwari, Goutami Das (IIT(ISM)Dhanbad)
- **3rd Prize**: Team SAN Andreas, Ashutosh College

GEO – Modelling

Geomodelling provided a platform for the depiction of the various surface/subsurface geological processes taking place in Earth system with dynamic models. 11 teams came up with innovative working models ranging from a wide range of topics.

The complexity of models and the way of depiction of various geological/geophysical phenomenon reflected the hard work poured into it by the participating teams. Event was judged by our prominent faculty member Prof M K Panigrahi.

Geo-Modelling results:
- **1st Prize**: Srutakriti Sahoo and team - Ravenshaw University
- **2nd Prize**: Arnab Ghosh and team - Ashutosh College
- **3rd Prize**: Shakti Sourav Das and team - Saraswati Degree Vidyamandir, Orissa

Case Study

Case study sponsored by Schlumberger was the most awaited event. The response among the participants was not overwhelming pertaining to the complexity of the problem statement. Very few teams were eventually able to present in front of the judges. It was not an easy task for the participants to solve the problem statement given by the Schlumberger team for the Prize money worth INR 50K. IIT Kharagpur emerged as the winner in this event.
Minrex

This event was aimed at testing the students’ mineral identification skills. It was a challenging experience for them to maneuver the minerals and rock samples through the various properties. Event was conducted in two rounds. The first round was a written quiz having MCQ and objective type questions related to minerals and mineralogy. On the basis of their performance in first round teams were shortlisted for the final round. Final round was based on close examination of the handspecimens and thin sections.

Minrex results:
- **1st Prize:**
  College Name: Presidency University
  Team members: Swarendu Dutta, Aritra Majumdar, Kaushik Garai
- **2nd Prize:**
  College Name: NIT, Rourkela
  Team members: Durgashankar Pati, Satyajit Mahanta, Dugaprasad Mahanta

- **3rd Prize:**
  College Name: NIT, Rourkela
  Team members: Gourav Saha, Ramakant Mishra, Shubham Badola, Biswajit Narayan Boro

Words of Wisdom

Participants were given topics related to geology on which they had to write an article. After this the shortlisted participants were given an another topic during PRITHVI’18 and one day time to prepare a speech. Final judgement was made on three factors: content, understanding of the topic and elocution.

Words of Wisdom results:
- **1st Prize:** Kshma Priya (St. Columbus College)
- **2nd Prize:** Risabh Shukla (IIT, ISM Dhanbad)
- **3rd Prize:** Megha Mahapatra (Jadavpur University)

Terra Wars

Terra Wars was conducted on the 16th of March (preliminary round) and on the 17th of March (finals). Participants were tested on their Mathematical skills applied in Geological fields. The question paper contained 2 sets: one containing multiple choice questions on structural geology and other set of questions was solved using Google Earth platform. The time limit of the event was set as one hour 1 hour. The standing saw Banki Autonomous College being 1st and a team from IIT, ISM Dhanbad standing 2nd.

Terra Wars results:
- **1st Prize:** College: Banki Autonomous College
  Team members: Jyotirmoy Routray
  Nihar Ranjan Sahoo

- **2nd Prize:** College: IIT, ISM Dhanbad
  Team members: Anuradha Latwani
  Shivam Tiwari

- **3rd Prize:** College: JK College
  Team members: Shib Kumar Dutta
  Manabendra Kuiry
  Seshadri Mandal
  Himanshu Das
Online Events

Geoclick
Geoclick was a photographic event which received entries over 60 colleges. Best geological were rewarded and displayed in Prithvi arena. The genre of the photographs was to depict some geological structures or processes.

Onlinequiz
Online quiz was a weeklong quizzing event with a participation of over 300 per quiz. Winners were rewarded on a daily basis. These events served well for attracting participation from every corner of the country. Winners were chosen daily and goodies and gift coupons were given as reward.
The event took place from 9th March to 11th March. Each day a quiz was uploaded. In total, it was a series of 5 quizzes. The quizzes were uploaded on the site Dare2compete.