



SPG Student Chapter under Kurukshetra University Geophysical Society hosted technical lectures by industry giants

The SPG Student Chapter under the Kurukshetra University Geophysical Society hosted an insightful lecture featuring industry giants Mr. Pawan Kumar Singh, Chief Geophysicist at Oil India Ltd., and Mr. U.S.D. Pandey, Former Executive Director at ONGC (Oil and Natural Gas Corporation Limited).

Mr. Pawan Kumar Singh took the audience on a captivating journey into the world of hydrocarbon exploration. With his extensive industry experience, he shed light on the formation and migration of oil and gas deposits, a fundamental aspect of the exploration process. He meticulously explained the E&P (Exploration and Production) cycle, guiding the students through the various stages from exploration to production. Furthermore, Mr. Singh delved into the realm of geophysical prospecting techniques, highlighting the crucial role of gravity, magnetic, and seismic methods in identifying potential hydrocarbon reservoirs. His insights into onshore surveys and seismic data acquisition provided the students with a tangible understanding of industry practices and the

technological advancements driving modern exploration efforts.

Mr. U.S.D. Pandey steered the discussion towards offshore exploration, a domain that presents unique challenges and considerations. He elucidated the intricacies of marine seismic surveys and techniques, shedding light on the different interfaces encountered underwater and the strategies employed to overcome them. Throughout the lectures, interactive Q&A sessions allowed students to engage directly with these industry experts. The students seized the opportunity to explore their knowledge further, ask probing questions, and gain valuable insights from the wealth of experience shared by Mr. Singh and Mr. Pandey. This guest lecture served as an invaluable platform for students to gain first-hand exposure to the dynamic world of hydrocarbon exploration. By bridging the gap between academia and industry, the event fostered a deeper understanding of the practical applications of geophysical principles and techniques, ultimately preparing students for future careers in this exciting field.



SPG Student Chapter, Department of Geophysics at Kurukshetra University hosted a captivating lecture

The SPG Student Chapter, Department of Geophysics at Kurukshetra University hosted a captivating lecture by Professor Satybir Teotia, focusing on the cutting-edge technology of Ground Penetrating Radar (GPR). The session commenced with Professor Teotia underscoring the pivotal role of technology in our generation, setting the stage for an insightful exploration into the principles of GPR.

Professor Teotia expressed his profound fascination for the field of geo-scanning, sharing his enthusiasm with the audience and setting the stage for an in-depth examination of GPR principles. He emphasized the significance of gaining knowledge to effectively communicate within one's domain, encouraging students to "speak the language of your domain" and master the terminology associated with their field of study. The lecture then delved into the realm of seismic studies, unraveling the intricate terminologies and concepts associated with this discipline. Professor Teotia

fostered an interactive atmosphere, prompting discussions with students on topics such as stacking in seismic data and zero-offset scenarios. Notably, he shed light on the paramount importance of Anemo in the context of GPR, highlighting its crucial role in technology's applications.

Throughout the session, Professor Teotia's engaging style captivated the audience, making the lecture both informative and interactive. The students were not only introduced to the fundamentals of GPR but were also encouraged to actively participate in discussions, fostering a deeper understanding of the subject matter. In conclusion, Professor Satybir Teotia's lecture provided a comprehensive overview of GPR principles, intertwining theoretical concepts with practical insights. The event proved to be a valuable learning experience for students, leaving them better equipped to navigate the complexities of geophysics.



SPG Student Chapter, Department of Geophysics at Kurukshetra University organised a special outreach program

On the occasion of Earth Day 2024, the SPG student chapter, department of geophysics, Kurukshetra University organized a special outreach program to raise awareness and curiosity about various aspects of geophysics. Under the guidance of our faculty members, final year B.Sc. students from IIHS, KUK were provided in-depth knowledge about subjects like geology, groundwater, energy, oil and gas industry, as well as earthquakes.

The program was held at our seismological observatory, where students got to see the seismometer and its components. Through interactive sessions, they learned about the significance of these subjects and the career opportunities it offers.

Throughout the program, the emphasis was placed on fostering an understanding of the Earth's intricate systems and the role of geophysics in addressing critical environmental and energy challenges. The students were exposed to the multidisciplinary nature of the field, with topics ranging from sustainable resource management to natural hazard mitigation.

The outreach program was not merely an educational endeavor but also served as a platform to inspire and motivate the young minds in attendance. By witnessing the cutting-edge facilities and engaging with passionate professionals, the students gained a newfound appreciation for the vast potential of geophysics in shaping a sustainable future.



SPG Student Chapter, Department of Geophysics at Kurukshetra University hosted a captivating lecture

The SPG student chapter of the Department of Geophysics at Kurukshetra University orchestrated a captivating lecture, shedding light on the intricacies of earthquake dynamics. Dr. Abhey Ram Bansal, a distinguished alumnus of the 1994 batch and Chief Scientist at NGRI, Hyderabad, graced the occasion as the keynote speaker.

Dr. Bansal delved into the phenomenon of dynamic triggering of earthquakes and tremors in southeast Asia, captivating the audience with his expertise. He meticulously explored concepts such as near-field triggering, aftershocks, dynamic triggering mechanisms, and methods for identifying seismic events. Drawing from his extensive experience, he elucidated triggering incidents in notable regions like the Koyna-Warna area in western India, the Gorkha earthquake in Nepal, and the Taroku earthquakes in Japan.

The lecture was not only informative but also interactive, as Dr. Bansal actively engaged with the students, igniting their curiosity about the subject matter. He also elaborated on the potential career avenues in research within this domain, inspiring the budding geophysicists to delve deeper into seismic studies.

The session culminated with heartfelt expressions of gratitude and appreciation from Chairman Dr. Dinesh Kumar and Assistant Professor Dr. Manisha Sandhu. Their acknowledgment underscored the significance of such academic endeavors in fostering intellectual growth and scholarly pursuits within the geophysics department.

Overall, the event proved to be a resounding success, leaving an indelible impression on all attendees and reaffirming Kurukshetra University's commitment to academic excellence and scholarly discourse.

