

Preface

Welcome to the December 2023 issue of GeoChronicle Panorama, where we look deeply into the intricate tapestry of Earth sciences and its intersection with human existence. This edition encapsulates a diverse array of research papers and insights that shed light on key aspects of our planet's geological, environmental, and socio-economic dynamics. In this issue, we confront the critical challenges posed by Earth's processes, global warming, and climate change, emphasizing the urgent need for remedial measures.

The patron's message provides a comprehensive overview of the critical challenges posed by global warming, climate change, and Earth processes. It underscores the urgency of remedial measures, emphasizing the interconnectedness between environmental changes and their impact on biodiversity and human well-being. The discussion highlights proposed strategies, including transitioning to renewable energy sources and sustainable land-use practices, to address these challenges. Furthermore, it touches upon significant discoveries such as the massive phosphate deposits in Norway, reshaping global resource dynamics. The epilogue reflects on the intersection of geology with human life and geopolitics, advocating for a holistic approach to environmental stewardship and inviting contributions from diverse stakeholders for a sustainable future. Our exploration in this issue of GeoChronicle Panorama encompasses themes ranging from anthropogenic climate change to the implications of natural resource discovery, underlining the imperative of climate-friendly methodologies for our collective survival. The issue articulates the significance of addressing loss and damage related to climate change, particularly for vulnerable nations, looks into geoscience's influence on health, and advocates for equitable climate finance mechanisms to support adaptation efforts, through the following erudite reviews:

Girija Prasad Mohapatra's '*Konark Temple of Odisha: Some Geological Aspects of This Grand Heritage*' looks into the geological underpinnings of the iconic Konark Temple. This review unravels the mysteries surrounding its construction and enduring presence amidst coastal dynamics.

K. C. Sahu's '*The Human Face of Water*' draws parallels between the hydrological cycle and human existence, this study illuminates the profound interconnection between water and life, both physical and metaphysical.

Rupan Roy's '*Geomagnetic Field of Earth and Its Relation to the Liquid Outer Core*' explores the intricate dance of magnetism within the Earth's core, offering insights into the generation of the geomagnetic field and its role in shielding our planet from cosmic radiation.

Saptarshi Banerjee's '*Banded Iron Formations and Their Economic Prospects with Special Reference to India*' investigates the genesis and economic potential of banded iron formations, this review underscores their significance in India's mineral landscape and the quest for sustainable resource utilization.

Jitunandan Pradhan and Bhabani Shankar Sethi's '*Geographical Information System (GIS): New Age Soft Skill to Geoscience Education*' embraces GIS as a transformative tool in geoscience education, and the review elucidates its role in integrating diverse geospatial data and fostering interdisciplinary inquiry.

K. C. Sahu's '*Earth: The Grandeurs of Planetary Environment*' reflects upon Earth's majestic evolution and the challenges of anthropocentric development. The review calls for a paradigm shift towards responsible stewardship of our planet.

R. Nagendra and A. Nallapa Reddy's '*Effects of Trace Elements on the Critical Functioning of Human Health*' looks into the geochemical nuances of trace elements, with the study illuminating their central role in geological processes, environmental monitoring, and human health.

B. Mishra and S. Mishra's '*An Overview of Happy Hormones: Implications to the Physical and Mental Health*' unveils the neurochemical underpinnings of happiness, this exploration underscores the profound impact of hormonal balance on holistic well-being.

As we conclude this issue, we recognize the implications of our collective actions on the Earth's future. Through collaboration and innovation, we strive to forge a path towards resilience and sustainability, guided by a shared commitment to safeguarding our planet for generations to come. We extend our gratitude to the contributors, readers, and stakeholders who enrich the discourse on Earth sciences and inspire meaningful action. Together, let us embark on a journey of discovery and stewardship, embracing the challenges and opportunities that lie ahead.

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GeoChronicle Panorama