# Title Information

Ishika Patel

Final News Report

June 27, 2020

N/A

Table of Contents

[Title Information 1](#_Toc46759995)

[Introduction 2](#_Toc46759996)

[Module 5 News Report 3](#_Toc46759997)

[News Report Reviews 4](#_Toc46759998)

[Module 1 4](#_Toc46759999)

[Module 2 5](#_Toc46760000)

[Module 3 6](#_Toc46760001)

[Module 4 6](#_Toc46760002)

[Conclusion 7](#_Toc46760003)

[References 8](#_Toc46760004)

# Introduction

The Final News Report is a culmination of all of the research in each of the Modules of GEY 111. This research project has conveyed the sheer relevance of geology in not only real life but also in academics. Each Module Report is an expose on the divided topics of this course. To take a personal approach to this assignment, each news report has been blended with a relevant technology feature.

Module 1 focuses on the Introduction of Earth in Space and Time. In this Module GEY 111 students look into space exploration and the contents of the Earth. This first news report has seen so much varying coverage from the Hubble making new space exploration to Yellowstone National Park to the New York Skyline. These features were in relation to the scientific method, geologic time, and the realm of planetary geology.

Module 2 looks into the Geologic Material on Earth. In Module 2, the overarching theme was looking into the three overarching types of rock: Sedimentary Rock, Igneous Rock and Metamorphic Rock. These types of rock and their formations and uses dove the theme of Module 2’s news reports. Reports ranged from looking into the new blue chemists found from space to dating rocks and also the use of dyes in stone washed denim.

Module 3 is named based on the Relationship Between the Interior and Surface of the Earth. The most notable topic in this module was the unit on differentiation. Differentiation is the process that has separated Earth’s contents internally. The topics of this module includes plate tectonics, earthquakes and volcanoes. There was especial focus on earthquakes in labs! The news discussions ranged from machine learning in relation to earthquakes to coal burning and landslides.

Module 4 is based on the Earth’s Surface Processes and Hydrosphere. From looking into the hydrologic process to geologic landforms. From reading about Wind Energy to the Utah Arches the GEY 111 class has looked into so may topics to uncover more knowledge on mas wasting, streams, deserts and all-around coastal geology.

This final Module wraps up the series of Geology and Technology interlocking. Module 5 is the covering climate change and its impact on Geology. Module 5 is featuring Technology’s Influence on Climate Change”.

# Module 5 News Report

Technology’s Influence on Climate Change

This news article relates to the topic of climate change in Module 5. Some of the topics uncovered in Module 5 include Fossil Fuels, Resources for Energy and Climate Change. With this final module I want to take my last deep dive into the technology world and geology.

This topic has informed me a great deal on the process of fracking. Fracking looks into breaking down shale rock to and injecting liquid to push up remaining oil. In this topic we have studied fossil fuels and this article also covers the United States usage of fossil fuels in energy. The United States is a massive creator of carbon emission. This has proven deadly to our climate overall. This article also connects to the Module 5 discussion on our impact on the climate and how to cut our own carbon footprints.

Climate change is a never-ending battle of understanding the true depths of our negative impact on the environment and its causes. This article covers the use of technologies to influence climate change. These include wind energy and gathering data on methane and carbon emission. Another factor is learning how to cut out carbon footprints.

Climate change is crucial to my generation’s future and hereafter. This issue is not going anywhere, and it is important to learn how to protect our planet. People like Jane Goodall and Greta Thunberg are widely known figures in the environmental activism to craft a better planet.

Everything we build on the Earth and take from the Earth have to do with geology. This topic is newsworthy for that reason. We have in our hand the ability to use technology to give back what we have taken and manipulated. This topic is especially newsworthy to me because it concludes my series on technology and geology. It is such an important topic to end on as climate change is such a pressing subject.

References:

Technology's Influence on Climate Change. (n.d.). Retrieved July 27, 2020, from <https://www.arcadia.com/energy-101/environmental-impact/how-technology-has-influenced-climate-change-both-positively-and-negatively/>

# News Report Reviews

## Module 1

Hubble Makes Surprising Find in Early Universe

This article caught my eye based on the sheer glory of the Hubble Space Telescope in space history. The Hubble has been so relevant to all of space history and discovery.

This article directly impacts the composition and history behind Earth. The article describes how our universe might have been formed earlier than expected. New research is coming up into the topic of galaxy formation. The new space exploration has fueled great inventions such as the ballpoint pen and will continue to do so in our lives.

Through this discussion about encountering geology in the real world I learned how we are still piecing together Earth’s history. I have learned that learning about space can be so relevant to learning more about how our own planet functions.

## Module 2

Chemists find path to 'new blue' in meteorite minerals

I chose this article because in high school I conducted my very own scientific exploration on dyes. I was very invested in this yearlong experiment and this article on space material creating a new color was really fascinating.

This topic impact our Earth because it discusses how space exploration is so relevant to the Earth. The items floating out in space are those that may have created our Earth. In our daily life, dyes and paints are also relevant in self-expression and painting our Earth as we see it, nature experiences, love and all.

In this discussion about encountering geology in the real world I learned how color is something we use in expression and the creation of the civilization we are. I learned how minerals and their so precious form have created so many amenities for us.

## Module 3

Machine-learning earthquake prediction in lab shows promise

I chose this article because it looks into the intersection between computer science and geology. By using machine learning we can look into the future impacts of earthquakes and how to mitigate risk.

Living in Colorado something I have considered is landslides in the mountains and avalanches as well. This topic however is so relevant many nations whose daily lives are frequently disrupted by the increase in earthquakes and national disasters. Earthquakes impact Earth based on the plate tectonics and their movement. The Earth’s crust is a crucial part to unearthing its other layers.

Through the discussion about encountering geology in the real world I have learned how I can pursue a geology field pathway with computer science. I have also learned how technology is the next step in mitigating geological risks.

## Module 4

Wind Energy

This National Geographic article was a great look into the new wave of sustainable energy. I chose this article because I am very interested in the impact of wind energy as a new resource to mitigate climate change. I chose this topic because it is insight on groundbreaking technology.

This topic impacts the future of our way to switch to a more sustainable energy plan. Earth is being turned inside out to create new versions of energy and this is using some of the resources such as wind to stop that destruction. Wind energy has been so critically debated and this article is uncovering some of the mystery behind turbines.

Through this discussion I have learned a little more about mass wasting and how our Earth has been shaped by human interaction. Humans are a massive part of the topological features and even some of the compositional features in geology.

# Conclusion

Each of these articles was newsworthy in their own way. It has become a great project of culminating the connection between computer science and geology. From Module 1 to Module 5, we have created a story line of articles that have make the Earth what it is today. Each hand and article in the space and time has crafted a view on what life is like here. It adds to the human experience!

An uncommon topic that was thoroughly discovered was the new discoveries made in space exploration. This year, the United States has seen substantial excitement in space funding, and these articles have put into perspective the good that space can do. I really enjoyed learning about the geologic features such as rivers, valleys, desert varnish, and arches that give us breathtaking views.

In common to each and every one of us we have the ingredients that have made this Earth and our very own bodies. The Earth is a topographical extension to our cultural experiences. This news project has uncovered the novelties of Geology and its applications.

# References

Technology's Influence on Climate Change. (n.d.). Retrieved July 27, 2020, from <https://www.arcadia.com/energy-101/environmental-impact/how-technology-has-influenced-climate-change-both-positively-and-negatively/>

Garner, R. (2020, June 3). Hubble Makes Surprising Find in Early Universe. Retrieved June 8,

2020, from <https://www.nasa.gov/feature/goddard/2020/hubble-makes-surprising-find-in-early-universe>

NSF (Ed.). (2019, December 31). Chemists find path to 'new blue' in meteorite minerals.

Retrieved from <https://www.nsf.gov/discoveries/disc_summ.jsp?org=NSF&cntn_id=299761&preview=false>

Los Alamos National Laboratory, O. (2017, August 30). Machine-learning earthquake prediction in lab shows promise. Retrieved July 06, 2020, from <https://www.lanl.gov/discover/news-release-archive/2017/August/0830-machine-learning-earthquake-prediction.php>

National Geographic Society. (2019, May 30). Wind Energy. Retrieved July 18, 2020, from <https://www.nationalgeographic.org/encyclopedia/wind-energy/>