

SCI-100-T1066 Perspectives in Natural Sci 20EW1













3-1 Discussion: What Made You Curious?



Review the news story that you chose to complete the topic exploration graphic organizer for Project 1 and complete the following:

- Explain the article in your own words, providing a brief summary.
- Why did you select this news story for scientific and personal study? In other words, what was it about the news story that interested you or made you curious?

When responding to your peers' posts, consider the following: Is their reasoning clear? Does it make sense to you? Where might there similarly be room for interpretation in your own post, and how might you clarify? Your review of your peers' posts will help inform your approach to your Project 2: Question Development Worksheet submission.

As you complete this assignment, note that your answers to these questions or closely related questions will be part of your Project 2: Question Development Worksheet submission, which is due at the end of Module Four. It is recommended that, in addition to entering the answers to the questions below, you save your answers in a Word document that you can refer to later when completing Project 2.

To complete this assignment, review the Discussion Rubric document.

Rubrics

Discussion Rubric: Undergraduate

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Killing Cats with Curiosity

Aaron Powell posted Sep 10, 2020 8:46 PM



Has Earth's oxygen rusted the Moon for billions of years?

That's the article that I chose. This article discusses how for the billions of years the Earth and the moon have complimented each other in space, the Earth's oxygen has been reacting with the iron found on the moon, causing it to rust all of this time. It goes into discussing how the near side of the moon, the part that faces the Earth may be more rusted than the dark side of the moon but doesn't state that the far side of the moon isn't rusted, just not as much as the near side.

This article stroked my curiosity because like many others, I've always been fascinated by space and I was also watching a Transformers film when I was looking for articles, so I guess that's a weird instance of faith. It's also extremely interesting to me how bodies in space interact with each other.



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Last post **September 13 at 10:27 PM** by Patricia Adams

3-1 Discussion

Noah Watson posted Sep 13, 2020 1:50 PM Subscribe

The article I chose was about two black holes colliding and creating a burst of light. The supermassive black hole or quasar absorbed another black hole. This was observed by measuring gravitational waves given off by this event and watched at Palomar Observatory. A burst of light was seen and the timing of this light and the gravitational waves points to the light being caused by the collision. This is of course just putting two and two together so it based off of observations and no real fact but everything lines up correctly.

The reason I selected this article was because black holes in my eyes are the definition of the unknown and I would love to know more about them as no one truly knows whats on the

other side of them. I've always had wonderment about space and been interested in space and time and since black holes seem to warp what seems to be a constant in our everyday life makes it even more amazing to me.

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What made you Curious?

Patricia Lee posted Sep 14, 2020 7:54 PM Subscribe

The article I chose was about a rare boomerang earthquake that was able to be observed. Earthquakes have always had my interest because it is amazing how the earth can open up and then close itself back up. An earthquake can last a few minutes but cause millions in damage. A boomerang earthquake is where the rupture starts in one direction and then stops and turns and goes in the opposite direction at higher speeds causing more damage. This also causes the strength of the earthquake to increase and makes the duration last longer which causes more damage and can cause tsunamis (Hicks, 2020).

As we are experiencing global warming it makes me wonder what affect this will have on the earth. Can it cause more earthquakes and possible boomerang quakes? Will scientist be able to predict and stop the boomerang quakes? As stated in this article scientist believe from their models they can stop a rupture but the problem is learning how earthquakes grow which is not they way they thought (Hicks, 2020).

Imperial College London. "Rare 'boomerang' earthquake observed along Atlantic Ocean fault line." ScienceDaily. ScienceDaily, 11 August 2020.

<www.sciencedaily.com/releases/2020/08/200811153918.htm>.

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Why I am curious

As I stated in my first post, I am pursuing a degree in Forensic Psychology. A little back story here so you will better understand why. There is a little girl that I love as if she is mine, and about a year ago she was removed from her parents' custody. It has recently come out that she was sexually abused by her father and an unaccounted-for amount of men. Her mother took part in her own way, by allowing it to happen, taking pictures, etc. While we have followed every step that was laid out for us; we were told there would be no charges filed. Why, you ask. Because she did not speak the words, she was scared and, in a room, full of people she did not know. Covid-19 kept us, the people she trusts, out of the building. It took me contacting the FBI and going over the heads of the county DA. The article I chose discusses the physical changes that abuse has on children. Brain activity, hormones, DNA all change pending the type of abuse, whether it be traumatic and violent abuse or emotional neglect there are changes that allow us to see physically what a child has been through. In our situation, being able to do a simple Ct scan that would let us know what took place would move mountains. Being able to draw a little blood and other minimally invasive procedures, we would be able to stop the questions. At age 7 telling someone you know that your daddy hurt you is terrifying. As a child you love him and miss him even though you don't want to go back, trying to tell but not get him into trouble is hard. Yes, I do believe that abuse victims need counseling but there is also a fine line between getting information to proceed and torturing a child over and over because they could draw a picture but not verbally speak the words. This research will allow us to have different avenues to finding out the truth about abuse without having to put a child through reliving the events multiple times. It also opens a window for victims that are nonverbal to be able to be heard. This is a very personal topic for me, but I am also very invested in following the research. Scientifically this will change the course of treating abuse of every form.



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Last post **Wed at 3:06 PM** by Tiffany Garrigus

3-1 Discussion

Chad Smalley posted Sep 9, 2020 9:55 PM Subscribe

Hello all, my article is.

A chunk of Yellowstone the size of Chicago is pulsing. Why?

This article discusses a large area of the volcanic area is pulsing at an expedential rate. The debate is about wether or not the increased pulsing is an indication that the large super volcano is getting closer to to an eruption. Now the last time that Yellowstone erupted was about 640.000 years ago. This could mean that its time is coming up and an eruption is iminent or it could mean that it has been so long that it is unlikely that Yellowstone will erupt anytime soon. Scientist basically say the cause of the pulsing is difficult to pin down, however it could definitely explain the reason for the geisers increased eruptions.

I was drawn to this article because I am a big fan of our countries national parks and their history. Take into account the volcanic state of Yellowstone and I had no choice.

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Last post **Wed at 5:20 PM** by Landon Johnson

Discussion 3-1

Amanda Reinhart posted Sep 14, 2020 9:04 PM Subscribe

Hello Everyone,

The article I chose to do my research on is Poor sleep at night 'spills over' into children's emotional lives. The story is that when children have sleep depravation it enhances the negative moods compared to getting a good night's sleep and having more of a positive mood structure. Poor sleep harms children's mental health and emotional stability according to a new study. There was a study done with 53 children ages 7-11 over the course of a couple weeks. The study was in-lab emotional assessment, to see how children react when getting a good night's sleep and then only giving the children a few hours. After sleep restrictions children experienced regulate and express their emotions more positive than negative, surprisingly. Then another test that was constructed was The Multi-Method Assessment where they had children view a range of pictures and movie clips eliciting both positive and negative emotions while the researchers recorded how children responded on multiple levels. Going into the real world after testing's we found that children with less amounts of sleep struggle with have more peer-related problems.

I chose this story because I want to learn more about how it affects children's emotional status and why. What are scientist or doctors doing to help children sleep or even stay asleep. From a moms point of view with having a child with severe sleep apnea it concerns me on how much more I feel like they could be doing. What do they do for children who don't like wearing there C-pap mask while there sleeping? I'm curious to find out what methods they use to help emotional behavior within children or even

adults. Is it medications, is it telling parents to push there kids to sleep more? With this covoid-19 going on its hard for parents to get there kids active or even off the video games to be able to sleep or have a life again. Last question I have is if they do dispense medication, what goes into this medication to help emotional balance? Is it scientifically tested?

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Last post **Wed at 5:24 PM** by Landon Johnson

What Made Me Curious?

Giovanni Copioli posted Sep 14, 2020 11:13 AM 🖍 🛣 Subscribe

The article I chose was published by the University of Arizona in 2017 and describes how a study done in Germany utilized bouldering to reduce stress while building muscle and physical endurance in patients with depression, effectively diminishing the patients depressive symptoms and improving their social capabilities. Bouldering is a discipline of rock climbing in which athletes climb rocks or structures of 30 feet or less without harnesses or ropes. Without the assistance of ropes and other gear, boulderers can only rely on their physical fitness and the soft crash pads below to come away unscathed.

This article made me curious because it brought up questions about my current well-being. I'm an avid rock climber, and I climb at least 3-4 times a week, so I began to wonder how climbing has affected my mental health. When I climb is when I am most at peace, especially when I'm surrounded by people that all support and engage in the same activities as me, so I firmly believe that climbing and bouldering fosters a nurturing environment for everyone. What I want to know is how? What specifically about climbing creates this environment of wellness and peace?

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Discussion Week 3

The article I chose discusses the impact of social isolation . Researchers discover a specific brain circuit damaged by social isolation. When reading this it discusses key parts of the brain being damaged when subjected to isolation. The effects were studied in juvenile rats. Social isolation can occur with different mental illnesses. It is hoped that by further studies that perhaps the development of medication to help stimulate this brain function. By doing this could help with effects of mental illness such as schizophrenia. I chose this article because I am interested in the development of children , and since the occurence of covid and the fact that we have to isolate to prevent the spread I am curious as to the lasting mental health effects this has on children.

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Discussion 3-1

Nick Riley posted Sep 16, 2020 11:18 PM



Hello Everyone,

The Article-

https://www.sciencedaily.com/releases/2020/05/200508145333.htm

The article is about How Higher Temperatures are creating a risk to human life. As the climate is changing in the world we are seeing a trend of rising temperatures as well as higher humidity. Scientists analyzed data from many different weather stations from 1979 to 2017 and what they discovered is that the dual threat of heat as well as humidity had doubled in that Time period.

In the past studies were not researched as specifically as this one. What they were doing was taking large areas and studying over longer periods of time. Taking hours to see if the climate was changing in big portions, this study however showed smaller areas in a much smaller time frame, this allowed scientists to see how quickly humidity was affecting the temperature in areas. This article also showed that heat related illnesses are responsible for more U.S. Deaths than any other weather related incident. The result of this study shows scientists that it is a very real fear that this rising temperatures are closer than anyone had anticipated to becoming intolerable temperatures.

The Reason I decided to choose this article was because it was relevant to me as I have previously worked as a landscaper at one time. This job was very labor focused and many times I had to brave the high temperatures, some of which I suffered slight dehydration at times. While saint Louis may not seem all that hot, the humidity it saint Louis is actually fairly high at times, specifically in the summer. Where we can have heat index's well over 100°F at times. When I came across this article I knew this would be the right one to choose. I looked forward to looking into how scientists are creating ways to prevent further deaths or serious illnesses from higher temperatures. I was also curious where Saint Louis ranked on a scale of highest humidity and what places were the worst ones in the United States, as well as if there is any sort of trend to which ones have higher humidity.



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Discussion 3-1

Joshua Starks posted Sep 17, 2020 10:38 PM Subscribe

Hey everyone,

The reason i choose the article i did is to see if i could see any of the same characteristic in my kids and kids i be around. By knowing what triggers a child to learn and what can enable them can majorly effect how that child views learning. Along with knowledge on the child memory span and what is expected for a child to remember, the teacher can know what's too much for the child, this way the child isn't stressed to learn. All these can play parts in the child mood and emotions towards learning, both play a key part in the learning and memory process. I just hope i can take some knowledge from this to help better assist in teaching my kids and kids around me. I'm no teacher but if i can see something wrong at home i can help to get that child to the comfort zone they need to be successful.

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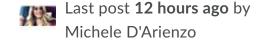
3-1 Discussion: What Made You Curious?

Raven Manning posted Sep 17, 2020 11:42 PM Subscribe

The article I chose is called "Teens' social media use does not raise risk for depression, study finds." The article discusses and debunks the finding that social media is a factor in teens' risk for depression. It goes into detail discussing the rates at which teens use social media and especially now in the pandemic how teens consume social media. It goes on to discuss how teens who already consume social media do not have the best mental health to begin with and teens use social media as a getaway to view funny and positive messages rather than as a model of comparison to their favorite celebrity. This topic has always interested me seeing as to how I grew up in a time when social media was really starting to take off and I know the effects it has had on my self-esteem in the past and even sometimes here in the present. I have always felt as though there is a link between the two and I always assumed it added to the depression and anxiety I felt as a teenager in those times. Now that I have cousins and other family members who are teens, and even as an adult I see more of the positive effects social media has on them and I also see how important it can be to use social media to seek out help from others who may be going through some of the same things as well. I think it's absolutely fascinating to see this shift occur and that is why I can't wait to dive deeper.

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What Made Me Curious?

Dami Herrera posted Sep 13, 2020 7:55 PM Subscribe

Hello Classmates,

The article from the University of California, San Francisco, (2020), "COVID-19 vaccines are moving fast, but will Americans agree to get them? Flu study sheds light on groups most likely to skip shots." (2020) is an announcement of a study being published in the *Journal of General Internal Medicine* that evaluates statistical research on demographic groups of people who abstain from getting vaccinated for influenza. The study compares and predicts the possibilities that the same groups will be less likely to receive the pending COVID 19 vaccines. The basis of the study is data observed from reports of people in the United States receiving the flu shot in the 2017-18 and 2018-19 flu seasons. The study compares the variables such as age, gender, religion, socio-economical status, and medical insurance, that might cause people to be more apt or less likely to receive the flu vaccine. These observations of data collected will help determine if more assistance is needed to ensure enough people participate in the COVID 19 vaccine to reach herd immunity.

I selected this news story for scientific and personal study for a few reasons. Firstly, the information overload of the facts and fictions of the search for a COVID-19 vaccine for the last nine months caused me to have numerous questions formulated in my mind about the chances of reaching the goal of eradicating the disease through vaccinations. This news article was fascinating to me because the data suggests it might be possible to ensure more people receive the vaccines if they are free and mandatory in schools and workplaces. Secondly, on a more personal level, I have not been able to spend time with my

immediate family since this whole event started in February. My husband and I are essential workers and have been exposed to all sorts of people on a daily basis. To do my part in protecting my parents, his parents, and other members of our family, we have maintained a distance from them. The possibility that a safe vaccine can help us get back to normal is weighing heavily on my noggin. Lastly, the spotlight on contagious diseases right now has opened my mind to a plethora of questions about the ability to eradicate diseases with vaccines. I have suddenly become interested in the fact that we have vaccines and still deal with the flu yearly. Why? Do any of you guys have a theory on that?

Regards,

Dami

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Last post **9 hours ago** by Jennifer Ryan

3-1 Discussion

Brandon Denny posted Sep 18, 2020 9:02 AM Subscribe

Hi, My article is

Exploding stars may have caused mass extinction on Earth.

The article discusses how the stars and the solar system might have had a major impact on the earth many centuries ago. It goes into discussing these things called supernovas which to me is a massive explosion of multiple stars and sends crazy amounts of multiple types of radiation down onto earth killing off anything it can. The reason for me being so drawn to this article is because ever since I was a little kid I have always been interested in the solar system from the stars to the planets I think its amazing how many things are really out there!



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What Made Me Curious

Brielle Hipke posted Sep 17, 2020 9:17 AM Subscribe

My chosen article is "Loggerhead Turtles Record a Passing Hurricane". The article is about 18 tagged turtles that were found in the path of a hurricane. This provided a unique opportunity to watch turtle behavior in extreme conditions and see what changed both before and after the event. There were varied responses to the storm among the turtles and up to two weeks after the storm the turtles' behavior did not return to normal. Tracking turtle behavior not only helps us to understand the animal better but could also help create improved weather models.

I chose this article because I love the ocean and the study of it. Scientists have been exploring the ocean for decades but so much of it is still unexplored and there is still so much to learn about the ocean. I also love all animals and sea creatures I find especially fascinating, so when I found an article about sea turtles I was definitely interested. Another thing that drew me to this article was the study of hurricanes. I've had friends and family affected by hurricanes and I'm curious to learn more about them. Although I know the basics of what a

hurricane is, I'd like to know more about what causes hurricanes, how they form, and what determines the intensity of them.

Link to article: https://www.sciencedaily.com/releases/2020/09/200901112201.htm



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Depression

Dawn Durham posted Sep 17, 2020 11:25 PM



I chose this article to write about it is about depression and how it has got much worse with covid-19. It draws my Interest because I have got depression and had it all my life. It shows that Boston University showed that depression rates went from 8.5 percent to 27.8 percent in April after covid-19 started. Depression has tripled since covid-19 started, which means when everyone has to stay at home it makes it much worse, suicide rates have gone up so much more due to covid-19. This article has so much great information and interesting facts in it.

https://www.sciencedaily.com/releases/2020/09/200902152202.htm

2 2 2 Unread Replies Views

Last post **2 hours ago** by Patricia Adams

What Made You Curious?

Gwendolyn Hanshaw posted Sep 17, 2020 8:30 PM Subscribe

I have decided to use the article "Social connection is the strongest protective factor for depression". This article is about how they are seeing lower depression rates in those who have a strong social network. They are still doing studies, but in the study that they recently did they used genetic factors to see who would be more likely to have genetic markers for depression. They also found that daytime naps, multivitamin use and tv have been factors in depression.

Right now in the world of the COVID19 pandemic there are many people who are social distancing and not seeing anyone in fear of getting or spreading the virus. In many facebook groups that I am in, specifically one for mothers who have given birth during the pandemic they are expressing how they feel as though they have PPD or depression. I was curious to see if there was an increase in depression rates since the pandemic started. When searching for an article this one came up and I felt that it would get me close to the thoughts that I was already having about depression rates, and it fell within the sciences so it became a win win situation for me.

Social connection is the strongest protective factor for depression. (2020, August 14). Retrieved September 02, 2020, from

https://www.sciencedaily.com/releases/2020/08/200814131007.htm

1 1 2 Unread Replies Views



Last post **2 hours ago** by Patricia Adams

3-1 Discussion: What Made You Curious?

Jennifer Ryan posted Sep 15, 2020 12:58 PM Subscribe

In my chosen article, "How Sour Beer Gets So...Sour" (How sour beer gets so... sour), scientists Longin and Soulsby study the chemical composure of sour beers during the process of aging to identify the combinations of acids and trace compounds that attribute to the different flavors. Many studies have been conducted on finished sour beer, but this is the first study done on the beer and how it changes during aging. The purpose of this study is to more fully understand at what point in the process certain flavors emerge and with what combination of yeast and bacteria so that brewers can have more control over consistently producing desired flavors.

I chose this article because I have an emerging interest in the fascinating process of fermentation and the new science of the age-old practice of brewing beer. My husband is a master brewer, and I would like to know more about it so that I can brew my own beer, I am particularly fond of sours.

References

"How sour beer gets so... sour." 17 August 2020. *Science Daily.* www.sciencedaily.com/releases/2020/08/200817104313.htm.



2 2 4 Unread Replies Views



Last post **2 hours ago** by Patricia Adams

What Made Me Curious?

Kimberly Nelson posted Sep 17, 2020 10:11 PM ★ Subscribe

The article I chose "Venom from honeybees found to kill aggressive breast cancer cells" discusses how researchers used honeybee venom to destroy the cancer cells, with little to no effect on non-cancer cells. There is a "peptide in honeybee venom called melittin" (Science Daily, 2020) that is used for the study and the article goes on to state that researchers are also able to reproduce this extract synthetically. This appears to be a new finding, so it is in earlier stages of development and testing.

There were many articles to choose from, I could have easily picked something that I was familiar with. I was intrigued by the discovery that something from nature as simple as honeybee venom can be used to treat cancer. I don't have a personal connection with honeybees or breast cancer, except once when I was stung by a honeybee, but I have friends who have had to go through cancer treatments and they

have lost friends along their path to a cure. I suppose my interest is somewhat personal and scientific. My desire is to hopefully find the roots to this discovery. What lead them to try this method?

References

Harry Perkins Institute of Medical Research. (2020, September 2). *ScienceDaily,* Venom from honeybees found to kill aggressive breast cancer cells. Retrieved September 2, 2020 from www.sciencedaily.com/releases/2020/09/200901093412.htm

Divya Ramaswamy, (2020, September 2). International Business Times - US ed.

Newsweek Media Group. <u>Honeybee Venom Can Destroy Aggressive Breast Cancer Cells, Says New Study.</u>

Retrieved September 16 https://www.ibtimes.com/honeybee-venom-can-destroy-aggressive-breast-cancer-cells-says-new-study-3038851



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Last post **1 hour ago** by Patricia Adams

3-1 Discussion: Curiosity

Landon Johnson posted Sep 16, 2020 5:17 PM Subscribe

When I first posted about this topic I made it clear on the reasoning behind my choice. When I first read the prompt on being given the option on which article to choose I knew then and there I wanted to do it on the influenza vaccine. The influenza vaccine gets attention year round; both positive and negative. Many question its strength and what it's downfalls are. By choosing this as my own personal study, I have always wanted to know more about the vaccine as I have received one each year. I have heard from many people who have gotten the shot once that they have never gotten sick til the season they got the vaccine. That made me wonder on its downfalls as I tend to get the flu each year. When I got the flu and then developed pneumonia last winter it opened my eyes up on wanting to know more about what the vaccine really does inside ones body.



1 1 2 Unread Replies Views



3-1 Discussion: What Made Your Curious?

Michele D'Arienzo posted Sep 15, 2020 6:53 PM Subscribe

Hi all,

My article: Portable, point-of-care COVID-19 test could bypass the lab, study finds

https://www.sciencedaily.com/releases/2020/08/200831165702.ht

Throughout the entire COVID19 pandemic, I have been on the "front lines" along side my peers fighting this unseen enemy since day one. As much as I want to tell you that I am sick of hearing about it (because I am), sick of listening to the news, sick of going into work for 18 hour shifts, sick of wearing these masks; something about the topic still caught my interest. I think in this case, the title was the first thing to grasp my attention because I read it and thought to myself "WE NEED THAT." Instantly, I found myself thinking what is this device? Is it real or is this another bogus article? This article discusses the invention and research of a device thought could potentially give us a result on a COVID test in 30 minutes or less. As someone who works in a unit that is now currently constantly delayed due to high lab turn around times it is frustrating that we don't have a fast outlet for testing. Delay in swab results, delays surgeries for our patients that could be detrimental to their health. Lab turn around times for results currently here on Long Island are anywhere fro 2-3 weeks when in reality we need results on patients between 24-48 hours before a procedure. To read that there could potentially be a device that would allow us to test a patient and have a result within 30 minutes is HUGE, especially for someone in my field.

I'll keep my fingers crossed that as I continue my research, I find that there are more devices in the making!

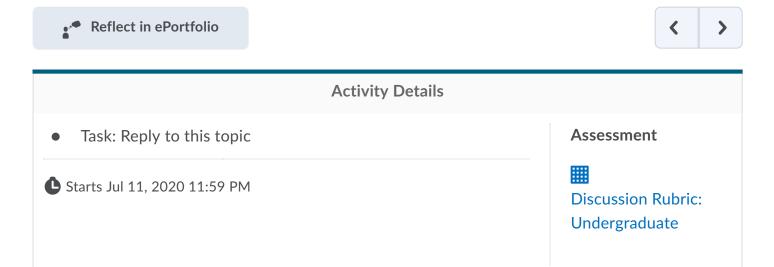
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Last post **1 hour ago** by Raven Manning

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Last Visited Sep 18, 2020 10:37 PM