Physics History

Read two APS News "This Month in Physics History" articles, and write a short response. The main goals of this assignment are for you to (1) become more literate in physics by learning about its history and (2) to give you some practice reading and writing about science.

Before next week's lab, please complete the following steps.

- 1. Look through the list of articles provided, and choose two that seem interesting to you.
- 2. Read the articles.
- 3. Write a short response to the two articles. One long paragraph is sufficient.
 - Summarize each article's main points in a sentence or two. Be sure to include the names of the articles.
 - Comment on aspects of each article that you found particularly interesting or surprising.
 - o You might mention:
 - Why did you choose to read the article?
 - Were you reminded of anything that you have seen in class?
 - Were you reminded of anything that you have experienced in your daily life?
 - Compare and contrast an aspect of the two articles.
 - o You might discuss:
 - Were the lives of the scientists similar?
 - How were the discoveries received by the scientific community?
 - Are there any connections in the physics discussed?

Your response can be neatly handwritten or typed, and it is **to be handed in at the beginning of next week's lab**. We expect you will be able to finish it or at least get a good start on it during today's lab.

History Reading List 1

Current Events and Indirect Measurement

For your first article, choose at least one these two articles.

May 29, 1919: Eddington Observes Solar Eclipse to Test General Relativity

http://www.aps.org/publications/apsnews/201605/physicshistory.cfm

June, ca. 240 B.C. Eratosthenes Measures the Earth

http://www.aps.org/publications/apsnews/200606/history.cfm

For your second article, either read the other suggested reading above or pick from the full reading list below.

December 1706: Birth of Émilie du Châtelet

http://www.aps.org/publications/apsnews/200812/physicshistory.cfm

Circa June 1748: Publication of Analytical Institutions

http://www.aps.org/publications/apsnews/201006/physicshistory.cfm

Circa May 1816: Germain Forms Theory of Elastic Surfaces

http://www.aps.org/publications/apsnews/200405/history.cfm

October 1847: Maria Mitchell Discovers a Comet

http://www.aps.org/publications/apsnews/200610/history.cfm

November 1872: Death of Mary Somerville

http://www.aps.org/publications/apsnews/200211/history.cfm

June 1876: Edward Bouchet becomes the first African American PhD in physics

http://www.aps.org/publications/apsnews/200706/history.cfm

March 23, 1882: Birth of Emmy Noether

http://www.aps.org/publications/apsnews/201303/physicshistory.cfm

December 1898: The Curies Discover Radium

http://www.aps.org/publications/apsnews/200412/history.cfm

July 13, 1901: Santos-Dumont Flies Around Eiffel Tower

http://www.aps.org/publications/apsnews/200407/history.cfm

Einstein's Biggest Blunder

http://www.aps.org/publications/apsnews/200507/history.cfm

January 15, 1919: Physics and the Boston Molasses Flood

http://www.aps.org/publications/apsnews/201701/physicshistory.cfm

November 1919: Elmer Imes Publishes Work on Infrared Spectroscopy

http://www.aps.org/publications/apsnews/200811/physicshistory.cfm

January 1, 1925: Cecilia Payne-Gaposchkin and the Day the Universe Changed

http://www.aps.org/publications/apsnews/201501/physicshistory.cfm

February 1928: Raman Scattering Discovered

http://www.aps.org/publications/apsnews/200902/physicshistory.cfm

March 16, 1938: Katharine Blodgett Patents Anti-Reflective Coatings

http://www.aps.org/publications/apsnews/200703/history.cfm

December 1938: Discovery of Nuclear Fission

http://www.aps.org/publications/apsnews/200712/physicshistory.cfm

February 11, 1939: Meitner/Frisch Paper on Nuclear Fission

http://www.aps.org/publications/apsnews/201502/physicshistory.cfm

June 1941: Hedy Lamarr and George Antheil Submit Patent for Radio Frequency Hopping

http://www.aps.org/publications/apsnews/201106/physicshistory.cfm

October 8, 1945: First Patent for the Microwave

http://www.aps.org/publications/apsnews/201510/physicshistory.cfm

August 1948: Maria Goeppert Mayer and the Nuclear Shell Model

http://www.aps.org/publications/apsnews/200808/physicshistory.cfm

January 23, 1952: Alan Turing's House is Burglarized

http://www.aps.org/publications/apsnews/201401/physicshistory.cfm

February 1968: The Discovery of Pulsars Announced

http://www.aps.org/publications/apsnews/200602/history.cfm

January 22, 1980: Soviet Dissident Andrei Sakharov Arrested

http://www.aps.org/publications/apsnews/201601/physicshistory.cfm

November 10, 1986: Death of Leona Woods Marshall Libby

http://www.aps.org/publications/apsnews/201411/physicshistory.cfm

December 14, 1989: Death of Andrei Sakharov

http://www.aps.org/publications/apsnews/200212/history.cfm

October 22, 2004: Discovery of Graphene

http://www.aps.org/publications/apsnews/200910/physicshistory.cfm

Women and the Nobel Prize in Physics

http://www.aps.org/publications/apsnews/201312/physicshistory.cfm