

Chapter 1 : Charles Kenneth Leith | Revolv

Charles Kenneth Leith (January 20, - September 13,) was an American geologist. He was head of the University of Wisconsin geology department for 30 years. In 1961, he was awarded the Penrose Medal by the Geological Society of America, the highest award given in the geosciences.

Geologist – A geologist is a scientist who studies the solid and liquid matter that constitutes the Earth as well as the processes that shape it. Geologists usually study geology, although backgrounds in physics, chemistry, biology, field work is an important component of geology, although many subdisciplines incorporate laboratory work. Some geologists work in the mining business searching for metals, oils and they are also in the forefront of natural hazards and disasters prevention and mitigation, studying natural hazards such as earthquakes, volcanic activity, tsunamis, weather storms. Their studies are used to warn the public of the occurrence of these events. Geologists are also important contributors to climate change discussions, James Hutton is often viewed as the first modern geologist. In 1785 he presented a paper entitled Theory of the Earth to the Royal Society of Edinburgh, Hutton published a two-volume version of his ideas in 1789. The first geological map of the U.S. Almost every state in the Union was traversed and mapped by him and this antedates William Smith's geological map of England by six years, although it was constructed using a different classification of rocks. Sir Charles Lyell first published his famous book, Principles of Geology and this book, which influenced the thought of Charles Darwin, successfully promoted the doctrine of uniformitarianism. This theory states that slow geological processes have occurred throughout the Earth's history and are still occurring today, in contrast, catastrophism is the theory that Earth's features formed in single, catastrophic events and remained unchanged thereafter. Though Hutton believed in uniformitarianism, the idea was not widely accepted at the time, most geologists also need skills in GIS and other mapping techniques. Geology students often spend portions of the year, especially the summer though sometimes during a January term, geologists may concentrate their studies or research in one or more of the following disciplines, Dendrochronology, the study of dating based on tree ring patterns. Economic geology, the study of ore genesis, and the mechanisms of ore creation, geochemistry, the applied branch deals with the study of the chemical makeup and behaviour of rocks, and the study of the behaviour of their minerals. Geochronology, the study of isotope geology specifically toward determining the date within the past of rock formation, metamorphism, mineralization and geological events. Geomorphology, the study of landforms and the processes that create them Hydrogeology, igneous petrology, the study of igneous processes such as igneous differentiation, fractional crystallization, intrusive and volcanological phenomena. Isotope geology, the case of the composition of rocks to determine the processes of rock. Metamorphic petrology, the study of the effects of metamorphism on minerals, marine geology, the study of the seafloor, involves geophysical, geochemical, sedimentological and paleontological investigations of the ocean floor and coastal margins. Marine geology has strong ties to physical oceanography and plate tectonics, palaeoclimatology, the application of geological science to determine the climatic conditions present in the Earth's atmosphere within the Earth's history 2. The population was 1, at the census, the village is located within the Town of Trempealeau. An ancient Native American site with earthwork mounds, also known as Trempealeau, has been studied near the village through archeological excavations in the 21st century, studies have been done through the Mississippi Valley Archaeology Center associated with the University of Wisconsin Madison. The newcomers are believed to have introduced corn culture to the area, the archeology site is slightly downriver of the prominent landmark, Trempealeau Mountain. In evidence was found of several structures that exhibited characteristics of Mississippian style. There is some evidence that a group came here from Cahokia. A post office called Trempealeau was first established in 1818, the village was named after a nearby island in the Mississippi River, that named by a French explorer. As of the census of 2000, there were 1, people, households, the population density was 1, There were housing units at a density of 1, The racial makeup of the village was 1, The median age in the village was 1, The gender makeup of the village was 1, Doctor of Philosophy – A Doctor of Philosophy is a type of doctoral degree awarded by universities in many countries. The completion of a Ph.D. The requirements to earn a Ph.D. A student attaining this level may be

granted a Candidate of Philosophy degree at some institutions. In many countries, a candidate must defend this work before a panel of examiners appointed by the university. Universities award other types of doctorates besides the Ph. In the universities of Medieval Europe, study was organized in four faculties, the faculty of arts. All of these faculties awarded intermediate degrees and final degrees, the doctorates in the higher faculties were quite different from the current Ph. No dissertation or original work was required, only lengthy residency requirements, besides these degrees, there was the licentiate. According to Keith Allan Noble, the first doctoral degree was awarded in medieval Paris around 1100, the doctorate of philosophy developed in Germany as the terminal Teachers credential in the 17th century. Typically, upon completion, the candidate undergoes an oral examination, always public, starting in 1600, in Ukraine Doctor of Philosophy is the highest education level and the first science degree. PhD is awarded in recognition of a contribution to scientific knowledge. A PhD degree is a prerequisite for heading a university department in Ukraine, upon completion of a PhD, a PhD holder can elect to continue his studies and get a post-doctoral degree called Doctor of Sciences, which is the second and the highest science degree in Ukraine. Scandinavian countries were among the early adopters of a known as a doctorate of philosophy 4. It holds top-ten positions in national and international rankings and measures. The university currently enrolls approximately 5, students in the College, Chicagos physics department helped develop the worlds first man-made, self-sustaining nuclear reaction beneath the viewing stands of universitys Stagg Field. The university is home to the University of Chicago Press. With an estimated date of 1900, the Barack Obama Presidential Center will be housed at the university. Both Harper and future president Robert Maynard Hutchins advocated for Chicagos curriculum to be based upon theoretical and perennial issues rather than on applied sciences, the University of Chicago has many prominent alumni. Rockefeller on land donated by Marshall Field, while the Rockefeller donation provided money for academic operations and long-term endowment, it was stipulated that such money could not be used for buildings. Organized as an independent institution legally, it replaced the first Baptist university of the same name, William Rainey Harper became the modern universitys first president on July 1, 1890, and the university opened for classes on October 1, 1890, The business school was founded thereafter in 1897, and the law school was founded in 1892, Harper died in 1906, and was replaced by a succession of three presidents whose tenures lasted until 1906. During this period, the Oriental Institute was founded to support, in 1895, the university affiliated with Shimer College in Mount Carroll, Illinois. The agreement provided that either party could terminate the affiliation on proper notice, several University of Chicago professors disliked the program, as it involved uncompensated additional labor on their part, and they believed it cheapened the academic reputation of the university. The program passed into history by 1906, in 1906, the universitys fifth president, Robert Maynard Hutchins, took office, the university underwent many changes during his year tenure. In 1907, Hutchins proposed a plan to merge the University of Chicago. During his term, the University of Chicago Hospitals finished construction, also, the Committee on Social Thought, an institution distinctive of the university, was created. Money that had been raised during the 1890s and financial backing from the Rockefeller Foundation helped the school to survive through the Great Depression, during World War II, the university made important contributions to the Manhattan Project. The university was the site of the first isolation of plutonium and of the creation of the first artificial, in the early 1940s, student applications declined as a result of increasing crime and poverty in the Hyde Park neighborhood 5. The lake is shared by the Canadian province of Ontario to the north, the US state of Minnesota to the west and it is generally considered the largest freshwater lake in the world by surface area. It is the worlds third-largest freshwater lake by volume and the largest by volume in North America, the Ojibwe call the lake gichi-gami, meaning be a great sea. Properly translated, the expression means Upper Lake, that is, the lake was also called Lac Tracy by 17th century Jesuit missionaries. Lake Superior empties into Lake Huron via the St. Lake Superior has an area of 31, square miles. It has a length of statute miles and maximum breadth of statute miles. Its average depth is Lake Superior contains 2, cubic miles of water, there is enough water in Lake Superior to cover the entire land mass of North and South America to a depth of 30 centimetres. This feature makes the lake dimictic, because of its volume, Lake Superior has a retention time of years. Annual storms on Lake Superior regularly feature wave heights of over 20 feet, waves well over 30 feet have been recorded. The lake is fed by over rivers, the largest include the Nipigon River, the St. Lake Superior

drains into Lake Huron via the St. Marys River, there are rapids at the rivers upper end where the river bed has a relatively steep gradient. The Soo Locks were built to enable ships to bypass the rapids, the lakes average surface elevation is feet above sea level 6. Mesabi Range –” The Mesabi Iron Range is an elongate trend containing large deposits of iron ore, and the largest of four major iron ranges in the region collectively known as the Iron Range of Minnesota. Discovered in , it is the iron ore mining district in the United States. The district is located in northeast Minnesota, largely in Itasca and it was extensively worked in the earlier part of the 20th century. Extraction operations declined throughout the mids but rebounded in , the Mesabi Range was known to the local Ojibwe as Misaabe-wajiw. Throughout the Mesabi Range, Mesaba and Missabe spelling variations are found along with places containing Giant in their names, there are three iron ranges in northern Minnesota, the Cuyuna, the Vermilion, and the Mesabi. Most of the iron ore, including that contained in northern Minnesota, was formed during the middle Precambrian period. During this period, erosion leveled mountains and this erosion released iron and silica into the waters of a new sea. Marine algae living in new sea raised the level of atmospheric oxygen. This oxygen catastrophe caused the iron to precipitate into the banded iron formations found in northern Minnesota. Over billions of years, geological forces left behind ore deposits of varied quality, on the Vermilion Range, between Soudan and Ely, lay the deepest veins of ore. There, miners worked in underground mines, blasting the ore from volcanic bedrock. On the Mesabi Range, stretching miles from Grand Rapids to Babbitt, soft ore lay close to the surface, the overall structure of the range is that of a monocline dipping 5 to 15 degrees to the southeast. Key faults include the Calumet, La Rue, Morton, Biwabik, the Duluth Gabbro complex to the east has caused metamorphic changes in the Biwabik formation. The natural iron ores and the magnetite taconites occur in this Precambrian Biwabik formation, the natural ores are located in elongated channels or tabular deposits, while the magnetite taconites occur in stratigraphic zones. Natural ores have a content of 51 to 57 per cent while the pellets contain 60 to 67 per cent. The natural ores are mainly mixtures of hematite and goethite, the most common silicate is Minnesotaite. Also of note are the presence of structures in the Biwabik formation. The Mesabi Range is miles long, the highest point, located about 5. More than 70 million military personnel, including 60 million Europeans, were mobilised in one of the largest wars in history and it was one of the deadliest conflicts in history, and paved the way for major political changes, including revolutions in many of the nations involved. The war drew in all the worlds great powers, assembled in two opposing alliances, the Allies versus the Central Powers of Germany and Austria-Hungary. These alliances were reorganised and expanded as more nations entered the war, Italy, Japan, the trigger for the war was the assassination of Archduke Franz Ferdinand of Austria, heir to the throne of Austria-Hungary, by Yugoslav nationalist Gavrilo Princip in Sarajevo on 28 June This set off a crisis when Austria-Hungary delivered an ultimatum to the Kingdom of Serbia. Within weeks, the powers were at war and the conflict soon spread around the world. On 25 July Russia began mobilisation and on 28 July, the Austro-Hungarians declared war on Serbia, Germany presented an ultimatum to Russia to demobilise, and when this was refused, declared war on Russia on 1 August. Germany then invaded neutral Belgium and Luxembourg before moving towards France, after the German march on Paris was halted, what became known as the Western Front settled into a battle of attrition, with a trench line that changed little until In , Italy joined the Allies and Bulgaria joined the Central Powers, Romania joined the Allies in , after a stunning German offensive along the Western Front in the spring of , the Allies rallied and drove back the Germans in a series of successful offensives. By the end of the war or soon after, the German Empire, Russian Empire, Austro-Hungarian Empire, national borders were redrawn, with several independent nations restored or created, and Germanys colonies were parceled out among the victors.

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Charles Kenneth Leith was an American geologist. He was head of the University of Wisconsin-Madison geology department for thirty years. In , he won the Penrose Medal, the highest award given in the geosciences.

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Charles Kenneth Leith is the author of The Economic Aspect of Geology (avg rating, 4 ratings, 0 reviews, published), Rock Cleavage (avg rat.

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Charles Kenneth Leith (January 20, - September 13,) was an American geologist. He was head of the University of Wisconsin-Madison geology department for thirty years. In , he won the Penrose Medal, the highest award given in the calendrierdelascience.comphyLeith was born in Trempealeau, Wisconsin.

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