

Foundations of America

Studies Weekly

PAST AND PRESENT

5

EARLY HISTORY LESSON OF THE AMERICAS

Most people believe that Christopher Columbus was the first explorer to encounter the new land we now call North America. Would it surprise you to know that historians believe there was another, much earlier explorer on this side of the Atlantic Ocean? A Norwegian explorer named Lief Eriksson is credited with being the first European to arrive in the Americas. He is also credited with establishing the Norse colony of Vinland in what is now L'Anse aux Meadows in Canada.

This colony did not last, and archeologists have been unable to find conclusive reasons why the colony failed.

It was nearly 500 years later that an Italian explorer named Christopher Columbus, sailing under the flag of Spain, made landfall in the Americas. However, he didn't know he had discovered an entirely new continent. Columbus was seeking a better trade route to Asia. When his ships landed in the present-day Bahamas, he thought he had reached

India. When he arrived, he met people who had occupied the land for thousands of years. These friendly people met Columbus and his men and offered to trade with them. Thinking he had reached Asia, Columbus called these people Indians. Why would these men, and many more, risk everything to set out to lands unknown? Let's find out about some of them in this week's lessons.



Connections

Motives and Movement

Why did people want to explore the great seas? Why did people want to colonize new lands? The simple answer is they all wanted to find a route for trade between Europe and Asia that was safer.

In addition to finding a safer trade route, many European countries were after more in their many voyages. Each voyage was funded for a specific purpose. These purposes are often referred to as the 3 G's: Gold, God and Glory.

Gold

Many explorers were seeking riches for themselves and their country. They would search for gold and other precious metals. There was even a rumor that Ponce de León was looking for the Fountain of Youth.

God

Religion was very important to many countries. Some explorers wanted to bring their beliefs to the people of the New World. Many Portuguese and Spanish explorers wanted to spread Christianity, a religion based on belief in Jesus Christ.

Glory

Europe is made of many countries, all of which wanted to claim the most land in the Americas. It was a race for explorers and settlers from each country to start a colony. For example, Jacques Cartier wanted to claim the land for France. Hernán Cortés claimed land for Spain and John Cabot was the first explorer to claim land for England.

Together, these motivations gave rise to the Age of Exploration.



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JS Bruner



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for the nitration 4 01 ml of nitric acid 4 00 ml of sulfuric acid and 4 56 ml bromobenzene were used to complete the reaction with these measurements bromobenzene was found to be the limiting reagent since only 4 56 ml of bromobenzene was used the amount of product predicted to be recovered was 8 7533 g

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the aim of the experiment is to determine and study electrophilic aromatic substitution reaction eas particularly nitration of

methyl benzoate go give methyl m nitrobenzoate thus determine the weight melting point and percentage yield of the pure methyl m nitrobenzoate abstract

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in this experiment we will carry out the nitration of bromobenzene bromine substituted on an aromatic ring is an ortho para directing group it will direct an incoming electrophile to the ortho and para positions it is also deactivating meaning that its reactions will be slower than the identical reactions of benzene

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section 20711 lab experiment nitration of bromobenzene introduction the chemical reaction of nitration consists of a nitro group being added to or substituted in a molecule nitration can basically be carried out by a mixture of concentrated nitric acid and sulfuric acid this mixture is useful to obtain the active nitronium ion

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1 go to the restroom and wash the affected area with lots of soap and water the soap in the lab is not suitable for this purpose 2 return to the lab and apply mineral oil to the affected area 3 the summary to this warning is not to touch any part of your body while performing this experiment if you must leave the lab for any reason 1

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in the nitration of bromobenzene a mixture of sulfuric acid and nitric acid react with one another nitric acid the weaker of the two acids will serve as base to form nitronium ion bromobenzene will attack the nitronium ion by nucleophilic attack

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then actual is your actual findings yield actual theoretical $\times 100$ what are the possible side reactions of nitration of bromobenzene dinitration can occur at ortho para or at both ortho positions occurs in overheating meta product happens very rarely because bromine is an ortho para director

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the soap in the lab is not suitable for this purpose 2 return to the lab and apply mineral oil to the affected area theory and explanation of the nitration of bromobenzene if the temperature of the reaction mixture exceeds 60 o

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the bromine substituent in bromobenzene is an ortho para director the para position is favored due to steric effects in the reaction that takes place in this lab a nitro group is substituted onto bromobenzene at the para position to form 1 bromo 4 nitrobenzene

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over 5 minutes slowly pipet this bromobenzene into the icy cold nitration mixture hno 3 h 2 so 4 in the 125 ml flask and stir continue to stir the reaction mixture in the ice bath for 30 minutes do not heat in a new 250 ml erlenmeyer

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on the right the arenium cation has a nitro set with incredibly small 0 6 angstrom bond distances this will result in an optimization failure as the atoms are even close for the programme to accomodate their electrons demonstration of creating the p arenium cation by to nitration of bromobenzene

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the purpose of this lab was to observe where substituents are added on a benzene ring by way of electrophilic aromatic substitution the electrophilic source in the nitration of bromobenzene comes from a nitronium ion no2 which acts as the electrophilic species

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nitration of bromobenzene is an electrophilic aromatic substitution reaction the electrophile will be formed from 4 0ml of nitric acid and 4 0ml of sulfuric acid and will then react with 4 5ml of bromobenzene this will produce o bromonitrobenzene and p bromonitrobenzene

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