## American Innovation: Steamboats and the Age of Industry



National Association of Scholars Webinar Tuesday, August 23, 2-3 p.m. ET

## Dr. Kevin Crisman Professor of Nautical Archaeology, Texas A&M University Vice President New World Projects, Institute of Nautical Archaeology



Practitioner of Steamboat Archaeology Since 1980



Lake Champlain: A Good Place to Study The Development of Inland Steam Navigation





Lake Champlain's Century of Steamboats: Twenty-Nine Built Between 1809 and 1905



Twelve of the Twenty-Nine Still Exist and Have Been Identified The Earliest Extant Steamboat Wreck: Lake Champlain's *Phoenix I* (1815-1819)



Lake-Champlain Steam Boat. THE new SIEAM BOAT PHOENLY, J. SHERMAN, Master, will leave White-Hall every WEDNESDAY Morning, at o'clock, and St. Johns every SUNDAY, Morning, at the same hour; and will stop one hour at Burlington in passing cach way. September 30, 1815. 731f





# Archaeologically Recorded in 1980, 2009-2010









the traveller will find good accommod tions. SAMUEL STRONG, Propr JAMES WHALON, tors.

Vergennes, June 24, 1829.

The Economical Equine Alternative to Steam: Horse-Powered Boats





![](_page_12_Figure_0.jpeg)

![](_page_13_Picture_0.jpeg)

in the Red River, Southeastern Oklahoma

![](_page_14_Picture_0.jpeg)

The Sidewheeler Heroine, 1832-1838

![](_page_14_Picture_2.jpeg)

![](_page_15_Picture_0.jpeg)

Remnants of Boilers and Paddle Wheels Allows Reconstruction of Machinery Steamboat Design And Assembly Rapidly Evolve and Diversify

![](_page_16_Picture_1.jpeg)

Early Steamers

Developments are Poorly Documented in Earliest Decades

#### Eastern Waters

![](_page_16_Picture_4.jpeg)

#### Western Rivers

![](_page_16_Figure_6.jpeg)

#### **Manufacture of Engines and Boilers Leads to Growth of North American Iron and Steel Industries**

![](_page_17_Picture_1.jpeg)

#### WORKS, FOOT OF 12" ST. E.R. NEW YORK. IRON STILLMAN, ALLEN & E? Iron Founders Steam Engine and General Machinery Manufacturers. and Screw Cotton Presses, Mill Work from new and approved

Steam Boilers, Iron Ships and Bouts, Sugar Mills, Wrought Iron Sugar Kettles. Improved Steam Clarefiers and Exaporators, Valonum Pans, Hydraulic

natterns, Bruss Castings of every description de de.

### The Development of Steam Engines More Art Than Science

![](_page_18_Picture_1.jpeg)

![](_page_18_Picture_2.jpeg)

![](_page_18_Picture_3.jpeg)

![](_page_18_Picture_4.jpeg)

![](_page_18_Picture_5.jpeg)

![](_page_18_Picture_6.jpeg)

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#### **Steamboats Have Profound Influence on Concepts of Time and Distance**

![](_page_20_Picture_1.jpeg)

#### They Also Become the Great 'Meeting Place' of the American Public