

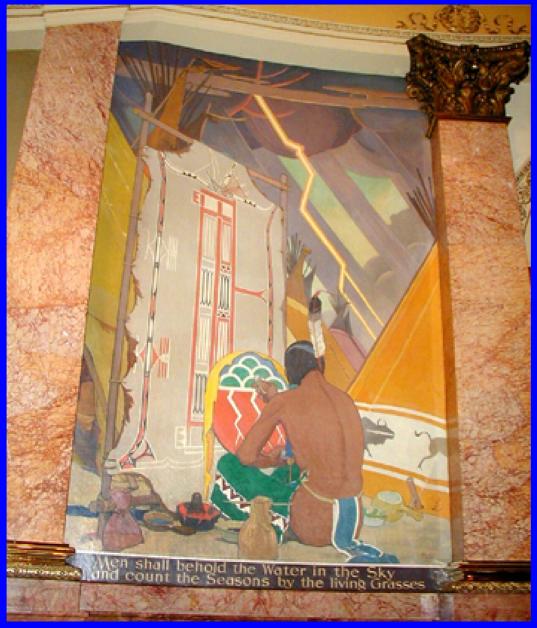


Partners in Hydraulics Bureau of Reclamation and Colorado State University

Neil S. Grigg Bureau 75th Anniversary August 18, 2005



Before Settlement



Water and the West—the Early Days



Time Lines

- 1803—Lewis and Clark
- 1840s—Oregon/Santa Fe Trails
- 1876—Colorado Constitution
- 1880s—Elwood Mead at CSU
- 1903—Reclamation Act
- 1920—Early hydraulic research
- 1930—Lab at CSU

Frontier-John Wesley Powell



Rouse's History

HYDRAULICS, FLUID MECHANICS,

AND HYDROLOGY AT

COLORADO STATE UNIVERSITY

EDITED BY HUNTER ROUSE



Engineering Research Center Colorado State University Fort Collins

Elwood Mead at CSU



Elwood Mead

Bellvue Lab



Bellvue laboratory channel

Lab setup at Bellvue



Early research

Gurley electric current meter, used for measuring water velocity

EARLY

RESEARCH:

THE DUTY CONTRACT OF WATER

hile faculty primarily concentrated on building the undergraduate curricula during the Lory years,

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research activity remained confined to the Agricultural Experiment Station. Agricultural research had been initiated by Ainsworth Blount as early as 1879, and engineering faculty were conducting experiments in irrigation by 1884. After the Experiment Station was

CSU and Bureau Lab Activity



ames Ball

Emory Lane

Bureau Lab



Parshall and his flume

ithin the original Land on. Under these cirstandable that even drawing five times students as agriculfield granted the vast egrees.

graduate engineering C were further imlocation in an agriculldition, the state's nining, was already utable School of Mines. g work of Mead and ng the field of irrigation loubtful that engineerre started as soon as it flume. In 1910 Victor M. Cone arrived to head the USDA's local Irrigation Investigations Office. With the help of a young civil and irrigation engineering instructor, Ralph L. Parshall, Cone designed a laboratory constructed west of the main campus in an area now occupied by the Lory Student Center. The lab featured a reservoir, approximately 85 feet in diameter and 7 feet deep, with a flow channel that travelled downhill into several concrete tanks housed in the laboratory building.

Exp Jon



23.5

Calibration Tank Y

channel 6x27

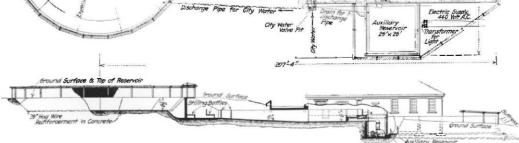
Tank)

55'

Calibration Tank Z

Tile Drait

Plan and elevation of USDA Hydraulics Laboratory designed by Victor M. Cone and Ralph Parshall, 1912



61-4"

1

Parshall Lab



CSU Lab about 1950



Adams Tunnel



CSU Water Outreach



Colorado's Water

Colorado's Water

Science & Management, History & Politics

by Neil S. Grigg





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