The Watercolors of Charles M. Russell: An Examination of the Artist’s Materials and Techniques on the Montana Frontier

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KEYWORDS

ABSTRACT
An analysis of Charles M. Russell’s (active ca. 1880–1926) watercolor materials and techniques were conducted as part of a technical study using low-power magnification, polarized light microscopy (PLM), X-ray fluorescence (XRF), infrared photography (IR), and ultraviolet (UV) radiation. Russell’s pigments were identified, as were shifts in his technique over the course of his career. Pigment samples were collected from Russell’s studio materials housed at the C.M. Russell Museum, the Britzman Collection at the Gilcrease Museum, and the National Cowboy & Western Heritage Museum. Russell’s technique was studied looking at 26 of his watercolor paintings. The paintings were chosen to represent all phases of the artist’s career and ability. Traditional and unconventional techniques were noted, as well as shifts in the utilization of underdrawing. The study also focused on a wide variety of high-quality artists’ materials available on the Montana frontier in the late 19th and early 20th centuries.

INTRODUCTION
This paper summarizes a larger study that represents the first comprehensive examination of Russell’s (active ca. 1880–1926) watercolor materials and his varied watercolor techniques. Throughout his life, Russell (Figure 1) created approximately 1,100 finished watercolors, constituting about one-third of his total artistic output. Russell’s watercolor painting technique was examined by focusing on 26 of his watercolor paintings chosen to represent various periods throughout his career. His watercolor pigments were characterized using samples collected from his existing studio materials.

Russell was born in 1864 in St. Louis to an affluent family. His parents were supportive of his artistic talents. Not fond of formal education and passionate...
about the American West, Russell was allowed to travel to the Montana territory just prior to his 16th birthday to work on a family friend’s ranch. He worked for several years as a cowboy, watching over cattle at night, which allowed him time to paint and draw during the day. He quit the cowboy life to become a professional artist in 1893. Largely self-taught, his early works appear relatively flat, with a limited color palette. As he gained proficiency, he utilized traditional and unconventional watercolor techniques, mastering transparent watercolor in the late 1890s. Later, after a pivotal trip to New York City in 1904, he incorporated and mastered the use of opaque watercolor. His color palette expanded markedly, and he used specific colors to give his composition a three-dimensional quality. As he gained financial success, he was able to travel to Europe and buy a second home in California, where he befriended movie stars and laymen alike. Russell’s paintings began setting records as the highest paid by a living artist. Russell died in 1926 in Great Falls, Montana. Businesses closed and mourners filled the streets to watch his funeral carriage pass. Montana’s adopted son was laid to rest at the age of 62.

ARTIST MATERIALS

“Paints, oils and varnishes” were being advertised in the local papers as early as 1874 (2) and possibly earlier in the Montana Territory, well before the advance of the railroad, which didn’t reach Butte until 1881. Secondary goods such as paints and artists sup-
plies were offered for sale at drug stores and later in specialty paint stores. Goods were shipped on steamboat from St. Louis up the Missouri River and then dispersed through the territory via mule trains (Figure 2). Traffic through the territory at times was so heavy that lines of mule teams stretched a distance of up to three miles (3) (Figure 3). After the railroad arrived, Russell was able to acquire artist supplies at the local paint store exported from as far away as England. Supplies included Winsor & Newton watercolor paint and, likely, J. Whatman watercolor paper. About one quarter of the paintings in this study were done on Whatman watercolor paper.

MATERIALS AND METHODS

A variety of methods were used to examine Russell’s works, including low-power magnification, XRF, IR and UV radiation. A Bruker Tracer V-III handheld XRF was used for X-ray fluorescence analysis in this study. The infrared images were shot with a Sinar Camera, Better Light Digital Scan Camera, Model Super8K Sinaron 180 mm, f5.6 lens, R72 infrared filter (720 nm).

Twenty-six of Russell’s watercolor paintings, chosen to represent various periods throughout his career, were examined by noting patterns and shifts in technique. The author sampled and then characterized watercolor pigments collected from Russell’s watercolor paint tins, tubes, jars and pans using PLM and XRF. More than 128 samples were taken and compared to an equal number of known historic watercol-
ors of various brands and characterized using PLM. Historic watercolor pigments, mostly unused in their original packaging, were purchased on eBay, sampled and compared to the Russell pigment samples to aid in characterization. It was determined that Russell had some 55 different watercolor pigments among his studio materials, 39 of which were identified using PLM and XRF (Figures 4 and 5). The number of samples is greater than the number of different colors due to redundancy of colors and multiple sampling of one sample to insure consistency.

UNDERDRAWING

Russell’s use of underdrawing was somewhat unique. He rarely erased his preliminary marks, choosing instead to leave them intact, even when he changed course, giving his compositions a sense of movement. In his early works, Russell uses detailed underdrawing, as seen in “The Story Teller,” ca. 1892–94 (Figure 6A). The graphite drawing serves both as sketch and medium in places equally as important as the watercolor paint. In subsequent years, as he gained greater confidence and proficiency, his underdrawing became looser, using minimal detail to block out his design rather than a detailed rendering of his subject, as seen in “His Wealth,” ca. 1910 (Figure 6B).

WATERCOLOR TECHNIQUE

Russell utilized a variety of traditional watercolor techniques throughout his career, such as wet-on-wet, dry brush, scraping, glazing, masking, blotting, application of highlights and the local use of gum arabic. As a self-taught artist, he seemed very willing to apply unconventional methods to his watercolor painting. Russell painted in both watercolor and oil, bringing lessons learned from one to the other. This is demonstrated in part by his propensity for impasto, a technique whereby paint is laid on very thickly, usually showing brush marks that required paint from tubes, as it provides easy access to large quantities of paint. In particular, Russell used Chinese white in tubes throughout his career, both for dimensional effect (Figure 7A) and as a primer (Figure 7B). He used impasto to convey drama and to heighten contrast in a scene;
however, the piling of paint was often unstable and evidence of frequent and widespread loss is visible on many of his watercolor paintings.

**DRAMATIC CHANGE**

Prior to his pivotal trip to New York City in 1904, Russell worked primarily in transparent watercolor, using opaque watercolor in a secondary role. He traveled to New York in part to obtain illustration commissions and gallery representation. While there he shared a studio with other professional artists and acquired new skills and materials. As a result, his palette became more complex and choice of paint shifted 180°. Opaque watercolor took a dominant role over transparent watercolors, which became secondary. He embraced the use of illustration board, a poor-quality rigid support faced with good quality drawing paper. Lightweight and rigid, it was ideal for watercolor painting, as it did not require the user to restrain his paper before wetting. However, the acid migration from the core eventually stains the facing paper, and it becomes brittle and unstable. In the last decade of his life, Russell used some of the largest sheets commercially available to paint highly finished watercolor paintings. His compositions in these pieces are both abstract and representative. His foregrounds are worked very wet and loosely in transparent watercolor, while his figures are painted relatively dry and highly detailed with opaque color.

**CONCLUSION**

Over the course of his career, Russell mastered the medium of watercolor using artists’ quality materials. He was dedicated to their use even early in his career when they would have been difficult for him to obtain or afford. Largely self-taught, his tenacious practice enabled him to master the medium of watercolor with a combination of both traditional and unconventional...
technique. His methods were informed by his experience in other artistic disciplines, as well as by repeated execution and an insatiable desire to learn. His increased skill coupled with his sense of humor and gifted storytelling ability gave him wide appeal. The technical study of his materials and techniques has laid the basic groundwork for future study. Such information will add to the growing knowledge base about Russell’s watercolors in the hopes of fostering a better understanding and appreciation for this great American watercolorist.

ACKNOWLEDGMENTS

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REFERENCES

4. Tin is part of the Britzman collection, Gilcrease Museum, accession no. TU2009.39.65, Tulsa, OK.
5. Geo. Rowney & Co. paint tin, C.M. Russell Museum, accession no. S991.19.147, Great Falls, MT.

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