

# DUSK

Chalk-fronted Corporal  
(*Ladona julia*)  
actual size

By Laura Richards &  
William Grant Turnbull



Sculpted here at 50x life-size, perching on blades of Idaho blue-eyed grass (*Sisyrinchium idahoense*) the chalk-fronted corporal is a dragonfly native to northern Idaho's lakes.

The species is named for light parallel bars on the thorax, which resemble a military badge, and a chalky, white patch that grows at the base of the abdomen in adult males.

Dragonflies regulate their body temperature by orienting their bodies perpendicularly to the sun to warm up, or by pointing towards the sun to cool down. Entomologists call this behavior 'the obelisk position'.

Inspired by this phenomenon, the sculpture's wings point in the directions of sunrise & sunset at Hayden's latitude throughout the year. The hindwings point directly east and west, for the Autumn equinox, and the forewings point to sunrise & sunset on the longest day of the year, the summer solstice.

This LED-illuminated, stainless steel & blown glass sculpture is a public art project of the Hayden Arts Commission, in collaboration with the Hayden Urban Renewal Agency, for the City and people of Hayden.

Dedicated on the Autumnal Equinox, 2016.

# DAWN

Pronghorn Clubtail  
(*Paragomphus graslinellus*)  
actual size

By Laura Richards &  
William Grant Turnbull



Sculpted here at 50x life-size & perched on a flowering stalk of the Idaho-native ground orchid commonly known as hooded ladies' tresses (*Spiranthes romanzoffiana*) the pronghorn clubtail dragonfly can be seen on northern Idaho's rivers & streams.

This species is named for the specialized shape on the tip of its abdomen. Like most dragonflies, the males can often be found vigilantly guarding their territory in this pose, which is used not only to regulate their body temperature (for how, see the plaque for "Dusk" behind you) but also, to display the bright colors of the mature males trying to attract females to the prime egg-laying sites they stake out, while hoping to ward off other males, who actively compete to patrol these sites.

Together with 'Dusk', this sculpture's hindwings also point directly east & west, to where the sun rises & sets on the vernal (spring) equinox, & its forewings indicate the southernmost direction of the sunrise & sunset, at Hayden's latitude, on the shortest day of the year, the Winter Solstice.

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