

## ADDITIONAL REPORT

**Object Name** Iron lilies

**Accession No.** 1969.4178.001, .002

**Author** Lauren Fair, Assistant Objects Conservator, Winterthur

**Report Date** October 13, 2017

During the winter months of 2014-15, 2015-16, and most recently this past winter, 2016-17, Garden and Conservation staff covered the iron floral sculptures with copper alloy/lead-filled bases in the Sundial Garden in the same manner as the initial enclosure done in the winter of 2013-14,<sup>1</sup> with some alterations made to the enclosure over the years.

Summary of alterations to-date:

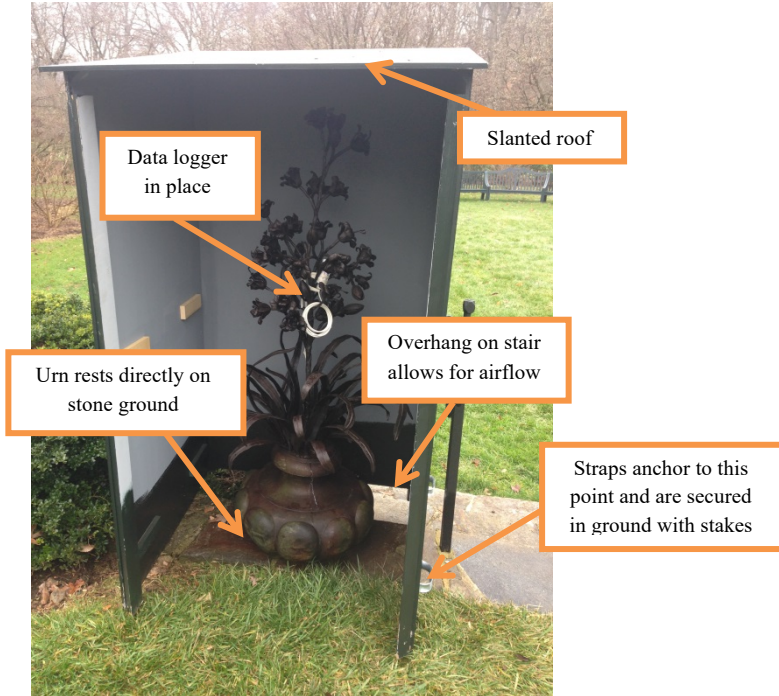
- Plywood box exterior painted white instead of dark green to limit ultraviolet absorption and prevent heat buildup inside enclosures
- Four rectangular windows, roughly 12x6" each, were cut into two walls of the enclosure, two windows on two opposing walls. On one wall, the upper window has stainless steel louvers screwed over the exterior, while the bottom window is simply covered with a cut screen fabric. On the opposite wall, the louvered window is at the bottom, while the screened window is at the top. This allows for directional and adequate airflow within the enclosure and prevents a detrimental amount of humidity buildup.
- The ground the sculptures sit upon has now been laid with stone, so whereas before the sculptures sat directly upon the grass (with an interleaving zinc alloy sheet for galvanic protection), they now sit atop stone.

The covers consist of painted plywood boxes that have four walls and a slanted roof, with no underside. The sculptures sit at the top of a small stone staircase within the garden, and the design of the enclosures is such that one of the walls can hang over the top step, allowing for air flow within the enclosure. Within each enclosure, the base of each lily sculpture sits upon a dense plastic basin, so that they are not in direct contact with the ground. The fourth wall can slide into place and is secured by four screws. The entire enclosure is then strapped down and anchored to the ground with screw stakes.

The following images illustrate the design of the enclosures, and their setup on the morning of 12/16/2014. For the 2013 setup, see report from that year.

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<sup>1</sup> See additional report in EMU Conservation records for 1969.4178.001 and 1969.4178.002 (Fair 2014).



A **U14 LCD Logger**<sup>2</sup> that measures temperature and relative humidity was placed inside one of the enclosures, within the lily sculpture. Data was set to record **every ten minutes** and will be collected throughout the duration of the winter and brought in when the enclosures are removed. The measurements will be downloaded off the logger and compared to the temperature and relative humidity data of the city of Wilmington during this time period in hopes of evaluating the effectiveness of the enclosures.

<sup>2</sup> Onset® HOBO® Data Logger with operating temperature range of -20°C to +50°C, 0 to 100% RH non-condensing; and operating relative humidity range 0 to 95%, non-condensing, noncorrosive environment.