Documentation of glass deterioration

Recent Advances in Glass and Ceramics d'Company soutions

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Introduction

In 2015 a glass conservation project was carried out at the Rijksmuseum, Amsterdam. The condition of 139 objects from the period between the 16th and 19th century was documented before and after cleaning.

The purpose of this project was as follows:

To create a condition baseline for a representative group glass objects by means of documentation in word and photographs, which can be used at a later date to detect changes in the condition of the objects.

Documentation in word: the description of the condition was carried out using terms that needed as little interpretation as possible. Objects were studied in various light sources (theorescent lamp, semi-dark with raking light) and magnification. The observations on the condition were documented on a specially designed form.

Decementation in phonographs: existing photographs, e.g. for a catalogue (see image to the right), provided poor information on the condition of the object, therefore photographs were made specifically aimed at capturing the condition of the objects. This enabled the detection of changes in condition with more certainty than before.



Stepwise approach



1. Inspection

Conditions about in various lighting. conditions, and unider different may Seation. All the observations were doc mented on a specially designed force.



Photography:

Clement Hamedidad HHID Multi-Shot 50 with EEC macro 120 room III lone. Number of encodings: 4 in total for much objects I overview & I detail. much with 2 thank lighting conditions.



Cleaning

Cleaning decrimentised water and more lossist edup (Symposousis AT);; Rinning demineralised water Devings a paper novel and left to Obey user from an Securit contact because



4. Inspection

The condition of the objects after climating was availabled and companied to the condition before deaning. Changes in appearance were done State of Land

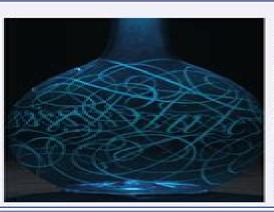


Photography

All parameters (e.g. distance comera-object, lighting angle, light gencrainer promot) were disconnected on a forms to increase reproducibility.

Findings





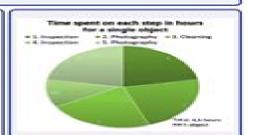
- The thorough documentation of the condition of the glass objects and reproducible photographs provide a 'condition baseline' for each object.
- For each glass a characteristic feature was identified before inspection, which could be pointed out in both photographs.
- The two photos on the right were taken using the same photography parameters. The slightly darker appearance of the object in the right photo is a result of the removal of surface deposits, which no longer scatter the Nigeline.

Buttle with inscription: "Blusch den geest niet usv" ["Do not ex-ninguish the spirit"], 1686, Dutch, Rijksmuseum, BK-NM-744.

Before cleaning (L) and after cleaning (R), photographed with the same parameter settings

Conclusions and Recommendations

- Adequate terminology is necessary for proper description of deteriorated vestel glass.
- The billboard quality photos (50 megapisel) are beneficial for the determination of the condition of the glass. Minute defects on the glass surface are visible and can be traced back on the photograph.
- Extensive documentation of methods and findings during inspection are crucial for future evaluation. of the condition of glass objects.
- The method used in this project enables the creation of almost completely reproducible photographs, independent of the photographer making them.
- A small group of objects will be monitored in the future using the same procedures as in the current project to evaluate condition changes.
- The thorough documentation and recreation of all parameters is crucial to create a reproducible. photograph. The choice of background material, for example, can change the photograph completely.



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