

## **Methods of Developing Material Information and Measurement Techniques in Restoration**

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**Abstract:** *Informed restoration is very important in our country, which is quite rich in terms of historical artifacts. In order to preserve our cultural assets for next generations, the Relief studies, which will be presented to the Board for Protection of Cultural Assets in the region where respective artifacts are located, should be conducted in the most correct way using current technologies. In addition, materials used in restoration works while protecting cultural assets should be correctly distinguished and analyzed.*

*The study touches upon details of the summer workshop conducted for purposes of creating awareness about protecting cultural assets, correctly recognizing materials used, conducting correct relieve works and learning restoration techniques, and the inferences made by students from these works.*

**Keywords:** *Materials, Measurement Techniques, Restoration.*

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### **I. INTRODUCTION**

Summer workshops are organized for the purposes of strengthening theoretical information and experience acquired by restoration students during their education, developing the skills and experiences gained in laboratory and workshop practices, allowing them to know about the responsibilities, relationships, organization and production processes at the workplaces they will be employed and new technologies to be used.

Organization of these workshops consciously and at accurate locations would positively affect the success the students will achieve in their business lives after graduation.

Workshop is a practical scientific teaching technique which allows individuals to work on, think about and learn a common subject. Although workshop is defined as an application for specialty fields rather preferred in academic information transfer practices where high level cognitive processes are applied, the term which was used to define summer schools in the past started to be used for practices at vocation schools of higher education. Each student studying at Mimar Sinan Fine Arts University Vocational School Restoration Program is responsible for completing 40 work days of internship (practical work) only on holidays during their education and the internships and workshops which are considered substitutes for internship are fields of learning where theoretically acquired information is developed and strengthened with practice on a scientific basis.

### **II. SCIENTIFIC RELIEFS IN SUMMER WORKSHOPS AND IN-SITU ANALYSIS OF LOCAL MATERIALS**

Summer workshops were organized in Kırklarerli, Osmaneli and other cities which were considered suitable for relief works and attracted attention with their historical identity with participation only of Vocational School students with Birgi Summer Workshops which were made traditional for being held annually by Mimar Sinan Fine Arts University Chancery and organized with participation of students from other departments than the Vocational School.

Recent summer workshops were organized in

2007-2008 Spring Semester in Kayseri Ağırnas Summer Workshop on 2-14 July 2007 and in 2011-2012 Spring Semester in Kayseri- Ağırnas. In the workshop, reliefs were taken for civil architecture examples in Ağırnas, street silhouettes were drawn and relief and restoration works were completed within the scope of Relief III and General Restoration Projects classes led by Asst. Prof. PhD. Sibel Onat Hattap.

In this study, local natural stone materials used in conventional architecture were examined at the site and their degradation processes in time were studied. Moreover, underground cities carved in stones which are located under almost every house and provide a natural air conditioned environment were visited. The process was attended by the Architectural Restoration program students.

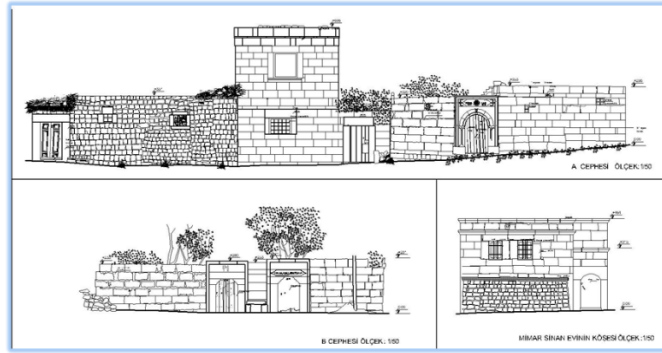


Figure 1. Kayseri Ağırnas Summer Workshop Relief Works



Figure 2. Kayseri Ağırnas Summer Workshop Measurement Techniques in Relief Works  
Birgi Summer School works were realized on 10-30 August 2012. The process was attended by the Architectural Restoration program and the Painting department students.  
2012-2013 Spring Semester: In the workshop organized in May upon request of the Bolu-Göynük Municipality, relief, restitution and restoration works were made and relief and restoration works were completed within the scope of Relief III and General Restoration Projects classes led by Asst. Prof. PhD. Sibel Onat Hattap.

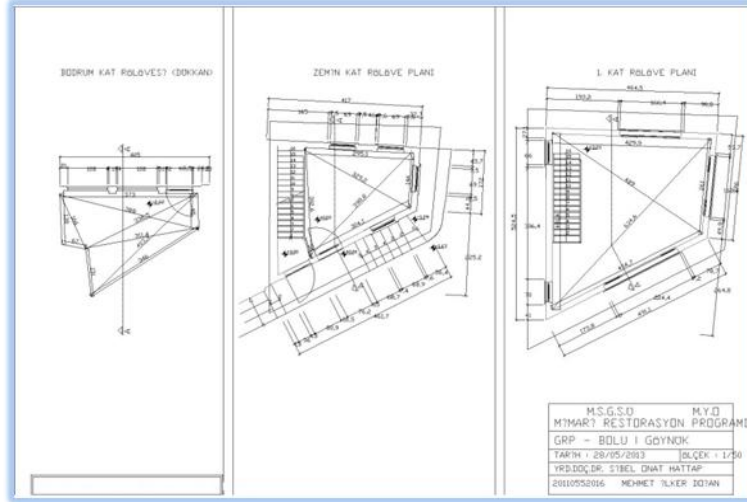


Figure 3. Bolu Göynük Summer Workshop Relief Works

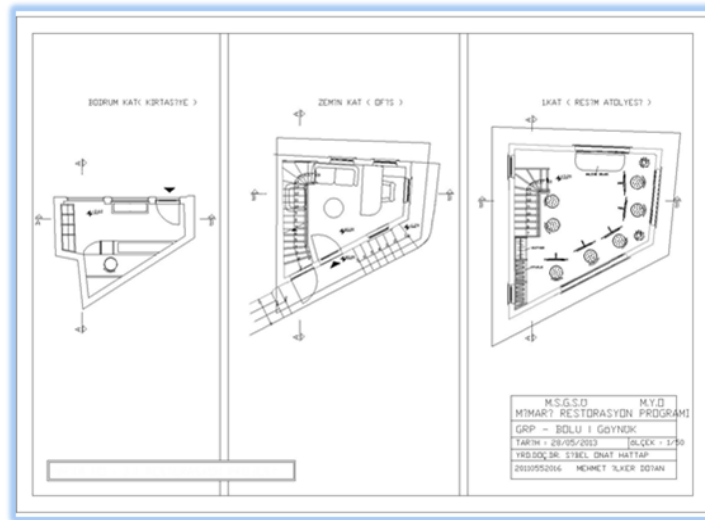


Figure 4. Bolu Göynük Summer Workshop Restoration Projects

A summer workshop was organized in July with a protocol concluded mutually with the Sivas-Divriği Municipality. In the workshop, civil architecture examples were reviewed, reliefs were taken and then relief and restoration works were completed within the scope of Relief III and General Restoration Projects classes led by Asst. Prof. PhD. Sibel Onat Hattap.

Birgi Summer Workshop, which is traditionally organized every year by the Chancery of our University, was realized on 10-31 August 2013. The workshop was attended by Architectural Restoration department and Painting department students and then relief and restoration works were completed within the scope of Relief III and General Restoration Projects classes led by Asst. Prof. PhD. Sibel Onat Hattap.

In addition, a street improvement was made in Kastamonu and examination visits were made to Boyabat and Sinop (no agreement), Bartın and Amasra (no agreement).

A protocol is concluded between Mimar Sinan Fine Arts University Vocational School Architectural Restoration Program and the relate municipalities in the city visited for summer workshop and then, works are delivered to the municipality to be submitted for evaluation to the Board for Protection of Cultural Assets in the area where they are located.



In this study, reliefs were made with the highest end technology and devices and materials specific to the area were examined at the site.



Figure 5. Students benefit from the total station device and other technologic products during relief works in summer workshops



Figure 6. Visit to Mimar Sinan House in Kayseri Ağırnas Summer Workshop

### **III. CONSIDERING SUMMER WORKSHOPS AS INTERNSHIP**

Works of the students at all summer workshops were accepted as internship and students recorded their works in their internship files. Other than these works, students who were not able to complete their 40 work day internship or not able to attend the summer workshop complete their internship on their own or at workplaces selected with the support of academics from or outside their own departments and sometimes along with the academic staff who is authorized for practical works. These workplaces can include special offices which make relief and restoration works and Foundations, National Palaces and other public organizations.



Figure 1. Internship works of a student named M.E. Alan in Beyazıt Mosque Restoration of the Foundations - Conservation of a Gripped Door.

Internships and workshops offer experience not only in relief and restoration but also in hand carving, stone material repair and conservation etc.

#### **IV. DISCUSSION AND CONCLUSION**

Summer workshops and internships not only allow students to develop what they learn theoretically within the scope of relief, restoration and material repair, hand carving and other techniques with professional applications but also allow them to learn about the local materials, lifestyle and traditions of the locals, architectural properties of the historical artifacts and styles of cooking and entertainment (e.g. weddings) and to acquire socio-cultural experiences. Additionally, visits are organized to historical and natural beauties in the area. Internships and summer workshops provide significant contributions to students in terms of employment after graduation and allow them to strengthen the knowledge they develop during their education and to acquire the capability of making scientific analysis.

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