The major points of extension are:

1. Carried out a deeper bibliographic research
2. Explained the effects of acid rain on different materials like marble and limestone
3. Documented damages on artworks from acid rains with pictures on two monuments. Described the damages shown on the two pictures.
4. Showed the percentage reflectance of the pH sensor for the three different layers of grating 5, 11, and 21 on a new chart
5. Realized a new sensor with different materials compared to the original in order to consider the manufacturability of the device
6. Showed the better performances of the second sensor in the pH range of 4-7.1
7. Compared the sensitivity of the two generation of sensors
8. Explained the innovation introduced with the new sensor