



ATMOSPHERIC CORROSION OF BRONZE:
*beauty of art, science and
cultural heritage care*
INTERNATIONAL SYMPOSIUM
ONLINE November 11th 2020



Zavod za varstvo
kulturne dediščine Slovenije
Institute for the Protection of
Cultural Heritage of Slovenia

ZAG

ZAVOD ZA
GRADBENIŠTVO
SLOVENIJE

SLOVENIAN
NATIONAL BUILDING
AND CIVIL ENGINEERING
INSTITUTE



Slovenian
Research
Agency

PROGRAM

8:30-9:00	Online registration of participants
9:00-9:10	Introduction to the event, dr. Polonca Ropret (IPCHS)
9:10-9:40	<i>“Corrosion of bronze and patina”</i> prof. dr. Luc Robbiola, Laboratoire TRACES-Travaux et Recherches Archéologiques sur les Cultures, les Espaces et les Sociétés
9:40-10:00	<i>“What is bronze patina in urban atmosphere?”</i> prof. dr. Cristina Chiavari, University of Bologna
10:00-10:20	<i>“Corrosion protection of bronze exposed outdoor”</i> assoc. prof. dr. Andrea Balbo- University of Ferrara
10:20-10:40	<i>“In-situ electrochemical testing of bronze sculptures”</i> , dr. Emilio Cano, CENIM-CSIC, Spain
10:40-11:00	<i>Coffee break</i>
11:00-11:30	<i>Bronze in changing environment- science and cultural heritage hand in hand</i> , dr. Polonca Ropret (IPCHS), dr. Tadeja Kosec (ZAG)
11:30-11:50	<i>Development of sensors for air and rain monitoring</i> , dr. Jakub Sandak, InnoRenew CoE
11:50-12:10	<i>Citizens engagement – gamification for bronze monitoring</i> , dr. Miklos Kresz, dr. Ana Slavec, InnoRenew CoE
12:10-12:30	<i>St Mary’s Pillar- development of plan for its restoration</i> , Nina Žbona (IPCHS), dr. Rok Hafner (IPCHS)