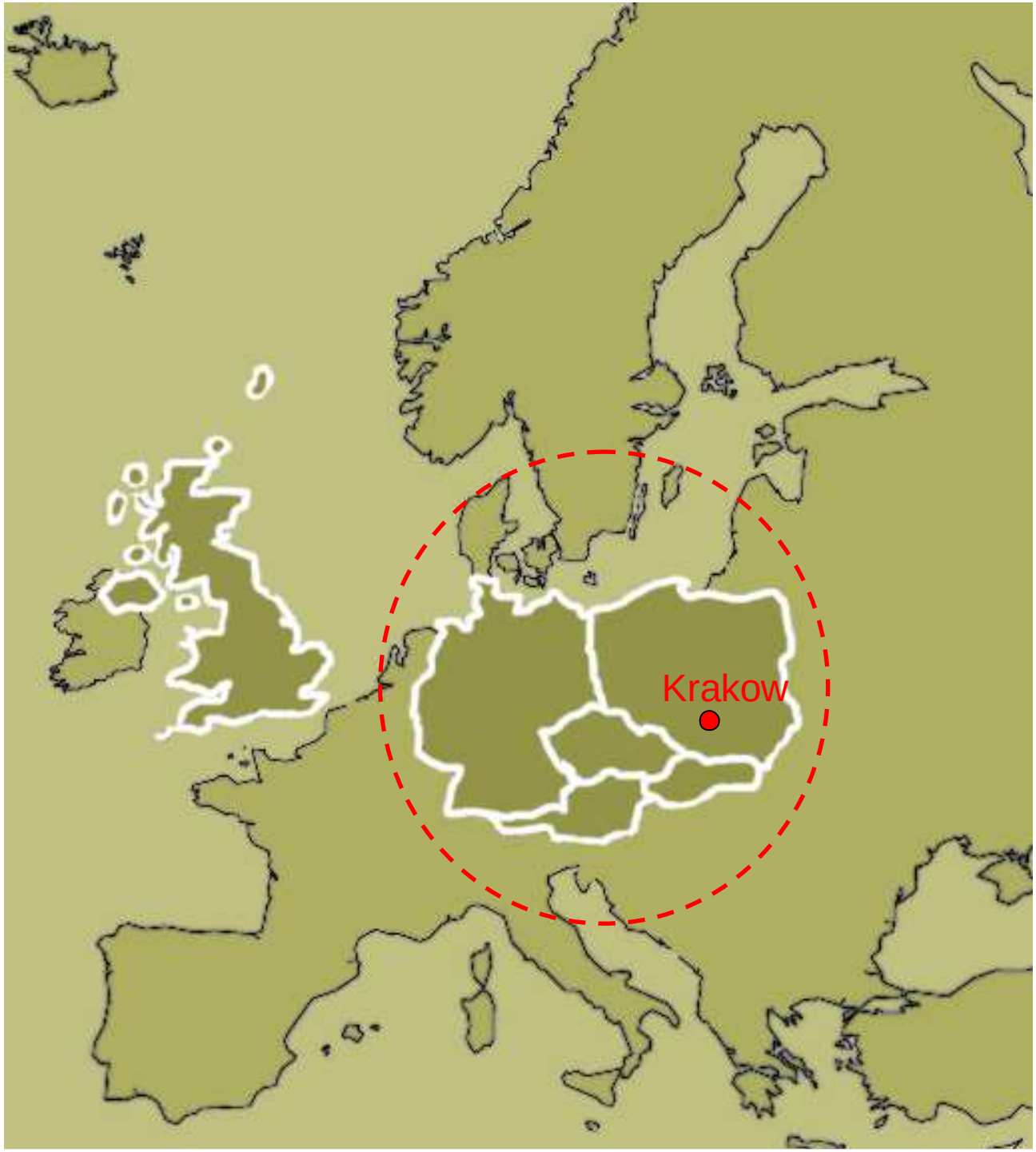
Restoration of façades based on the Roman cement technology

Roman Kozłowski
Polish Academy of Sciences, Krakow


Krakow

Krakow – city of Roman cement

years 1870 - 1914





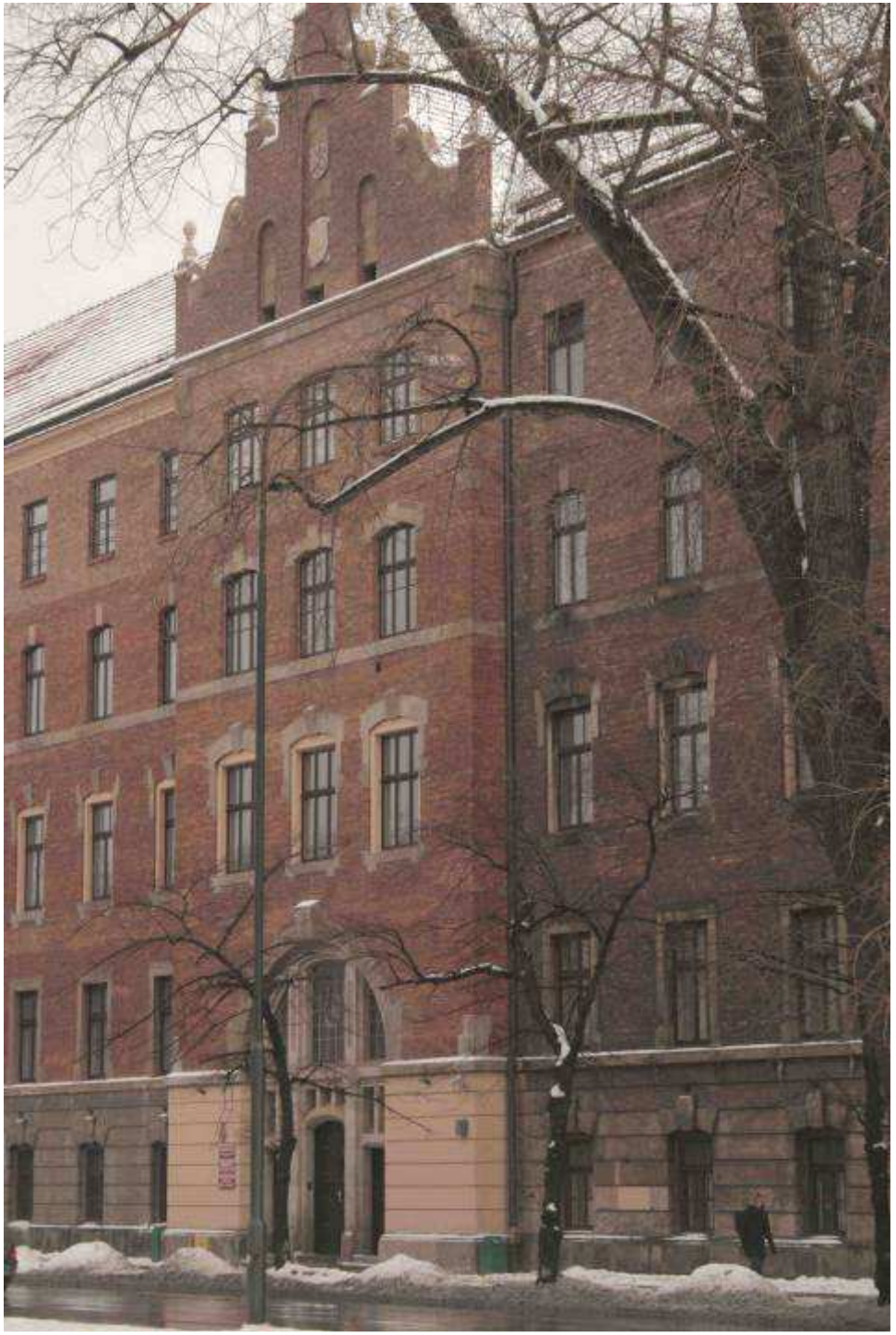
Restoration practice

Irreversible coating with modern paint



Municipal school, 1908-1911

Painting over even if Roman cement renders cover a fraction
of the facade and give
a good aesthetic effect with patinated brick.



Agricultural College

1908-1911



Agriculture College after restoration in 2009



Station of the
Electricity Board

1908-1913





In Krakow, very rarely naturally aged Roman cement renders were left unpainted after cleaning.



‘Under the Spider’ house, 1889, Krakow

The ROCEM project (2003 – 2006) re-established the manufacturing of Roman cements.



Electric kiln – 300 kg load of marls

Trade Academy, 1904 -1906, by Jan Zawiejski, full-scale restoration, 2005-2007





cleaning with superheated water



cleaning with sandblasting



Jacek Olesiak

cracked and stained surfaces





The missing part of the cornice is reconstructed.

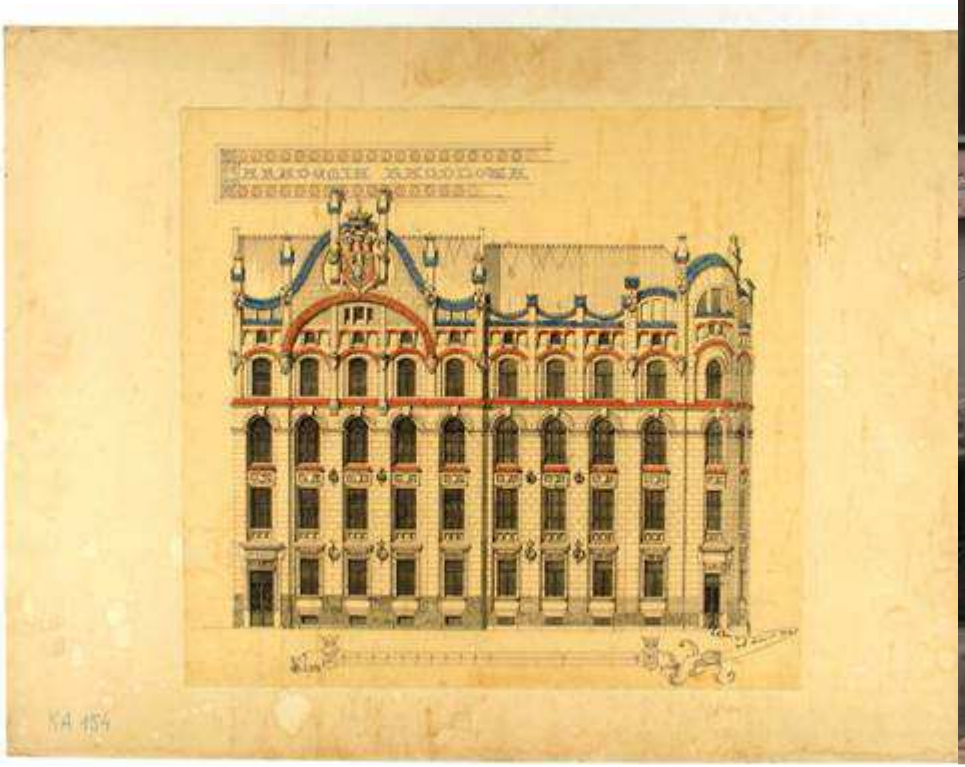


coating the entire architectural surface





Roman and Portland cement renders were used by the architect at the base to imitate different varieties of stone







Conservation practice in Krakow after 2007

Cases of „bad restoration” are declining but they happen!



Apartment house, restoration 2011!



Ludwik and Anna Helcel House for the Poor, 1886-1890

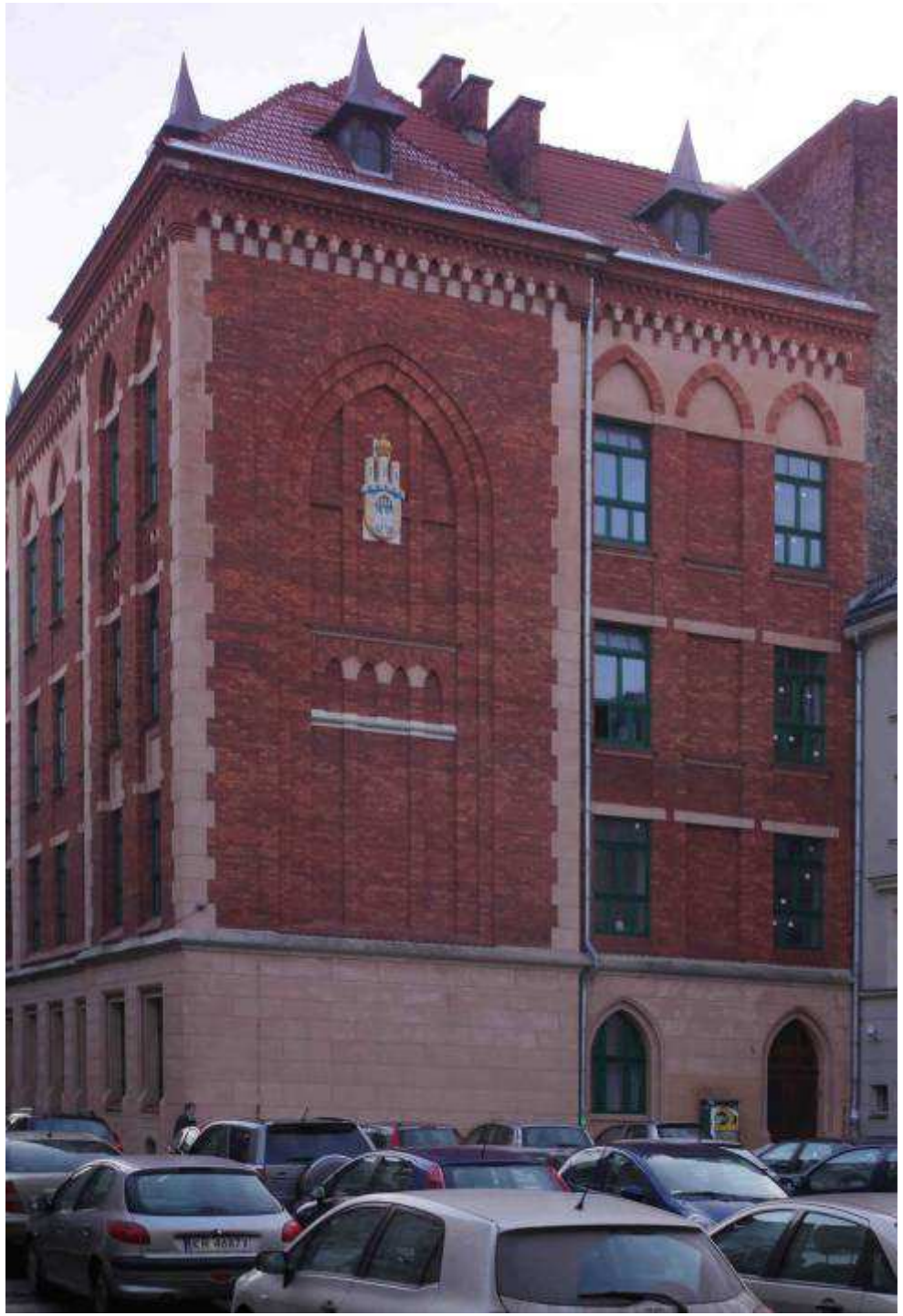

started 2007
2009
RATAE · SUNT · IN ·

„Painting over in good colour” is becoming a standard.



Apartment house, restoration 2011

Restoring Roman cements decorations using the original technology has becoming more and more popular.



Municipal school, 1908-1910

There is growing acceptance of natural, ‘mineral’ appearance of the Roman cement mortars, even with whitish areas due to migration of lime to the surface. Therefore, impregnation with water repellent agents is carried out or not.



Ground-breaking restoration projects appear!



Apartment house, 1888, restoration 2011.



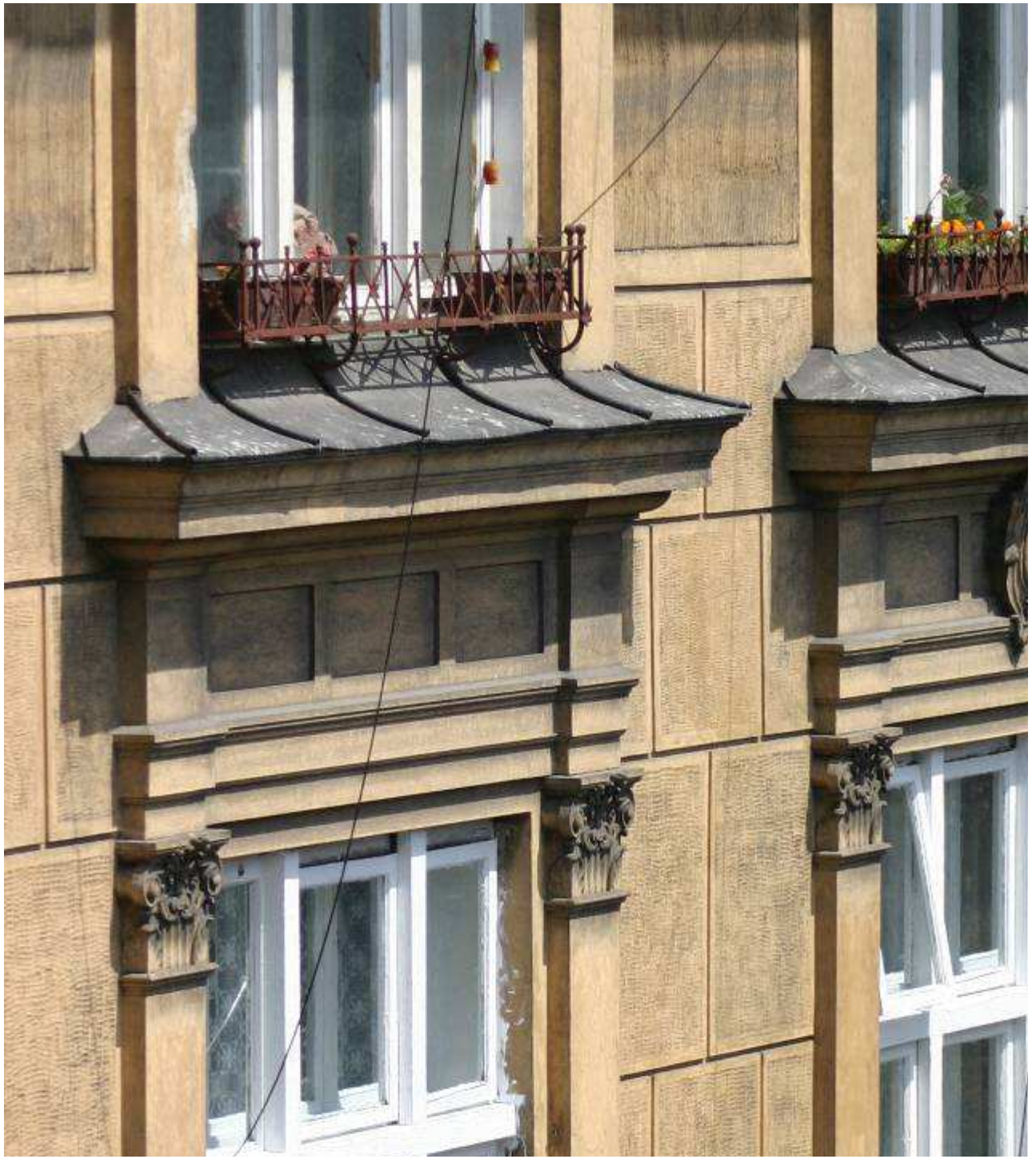

ANNO · D · MDCCCLXXXVIII ·


ANNO · D · MDCCCLXXXVIII ·
18

Future!

The excellent aesthetic results obtained so far should encourage the conservation community to conserve large historic Roman cement decorations covering the entire facades.

Apartment house, 1904-1905, restoration 201?.



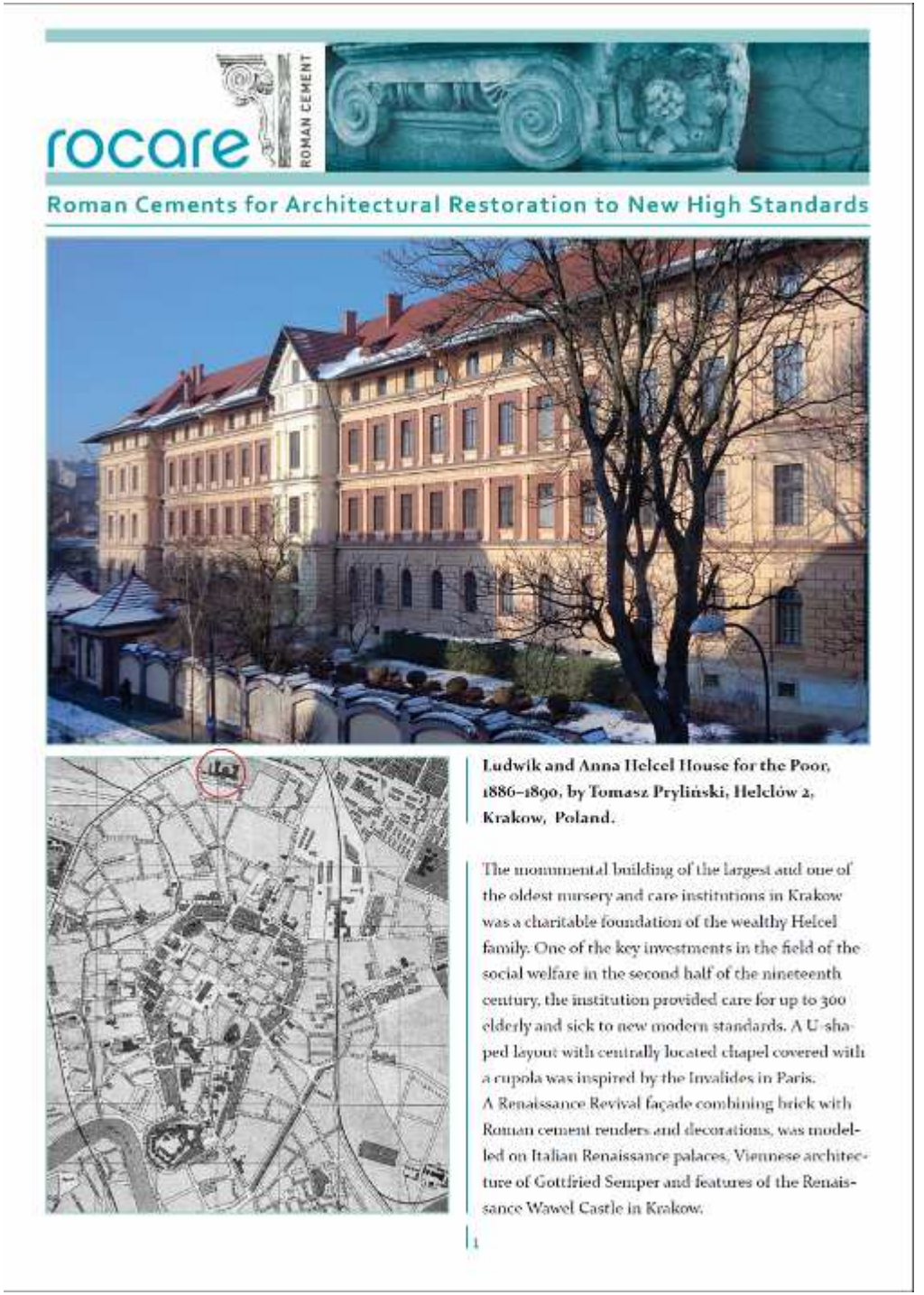
Conclusions



Re-establishing Roman cement technology allows better respecting and sustaining the built heritage of the 19th and 20th centuries.

Visit our website
www.roacare.eu

Brochures with detailed information on the conservation projects using Roman cements are dowloadable from the website



Thank you for your attention!

