The Borcola Staircase of the Palazzo Contarini in Venice was restored with contributions from the MinnesotaChapter of World Monuments Fund.

Cover
Gold Leaf does not decay, but the underlying surface sometimes disintegrates. Today, missing pieces are not replaced but the remaining gold is cleaned with an organic solvent.

The World Monuments Fund is the only U.S. non-profit organization that sponsors the preservation of cultural heritage worldwide. The Fund's Venice Committee has an office and a Visitors Center in the Church of the Pietà in Venice. It has supported the restoration of more than 20 major buildings, works of art and conservation laboratories since the disastrous floods of 1966.

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Restorers at Work
20 Years' Achievement
in Venice 1966-1986

Photographs by Edmondo Tich

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With Support from
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A remarkable number of organizations, both public and private, from almost all the major countries of the Western world have been working for the past 20 years to restore the buildings of Venice and its art treasures. This international effort, unique in its scope and ambition, has come about as a result of the threefold attack that the city faces: from the sea, from the land and from the air.

The danger from the sea is essentially that of flooding. The Venetian lagoon is almost landlocked, being cut off from the open Adriatic by a line of long, low sandbanks — the lidi — which is broken only by three relatively narrow channels. Over the centuries these sandbanks have usually afforded adequate protection. However, the slow but steady rise in the mean level of the Mediterranean has left the lagoon increasingly vulnerable to a number of dangers. The tide is obviously one. The wind, rather less obviously, is another, since the frequent southeasterly scirocco, if it blows for any length of time upon the axis of the Adriatic, and particularly if it then coincides with a build-up of low atmospheric pressure in the area, has the effect of piling up the waters at the northwestern end, from which there is no natural outlet. The consequence is the acqua alta — high water — which manifests itself not as an inrush ing wave but as a slow, deadly welling up of water around the city's buildings.

Every few years, the greater part of the city is inundated to a depth of several feet. The most disastrous flood of all came on Saturday, November 4, 1966, when the waters rose more than six feet (1.8m) above the mean sea level and much of the city was submerged, not only in water but in every sort of detritus: garbage, sewage and — most damaging of all — fuel oil.

The second attack that Venice has to face is from the land: in a word, subsidence. Some of the 117 interconnected islands on which the city is built may be stronger and firmer than others, but all are essentially composed of the sand and mud of the lagoon, and it is one of the many miracles of Venice that her immense marble churches and palaces have not centuries ago crumbled into the canals.

Here again, there has been a serious aggravation of the problem in recent years, due to this time to the activities of the huge industrial zone at Mestre and Porto Marghera on the mainland shore. As the new industries pumped out more and more water, so the bed of the lagoon began to sink, and Venice with it.

Lastly, there is the attack from the air. Venice is not the only city to suffer from atmospheric pollution, but its unique location greatly intensifies the problem. It is surrounded, and to a large extent permeated, not just by water but by salt water; and the sulphur dioxide issuing from the industries of Mestre (and, until they were all converted to gas, from the oil-fired central heating systems in the city itself) combined with these exceptional degrees of humidity and salinity has proved quite terrifyingly corrosive. Stone, marble, brick, even bronze: nothing is safe.

The Italian Government, realizing after the great flood of 1966 that the problem was far too wide-ranging and urgent to be tackled by itself alone, appealed to UNESCO. In its turn, UNESCO appealed to its constituent members, an impressive number of whom responded at once. Simultaneously, an even greater number of private organizations from both Italy and abroad — charities, educational foundations, and several individual funds established specially for the purpose — proclaimed their readiness to contribute.

The Italian Government is, of course, one of the major contributors. It ranges in technical complexity from the cleaning and consolidation of stone (the major part of many restoration projects) to the meticulous repair and restoration of works of art.

It should be emphasized that the entire international effort, impressive as it is, is by no means the whole story. The list given here is of private funds only and consequently makes no mention of the work of the Italian Government itself, which makes a large annual contribution to Venice, as to all the other historic cities of Italy. To quote just two examples, it has been responsible for the restoration of the Ca' d'Oro — recently opened as a museum — and is now working on the immense Palazzo Grimani at Santa Maria Formosa to which, it is hoped, the outstanding collection of classical sculpture amassed by the Grimani family in the 16th century (and at present in the Archaeological Museum) will eventually return.