

quaderni di assorestauro



ANNO 03 NR 03
OCTOBER 2014

**NAPLES
POMPEI
BARI
NARDO'
LECCE**

INTERNATIONAL WORKSHOP

ASSORESTAURO TRAINING AND COMMERCIAL VISIT
TO ITALY FOR FOREIGN ARCHITECTS AND
RESTORERS. EXPORT SUD PROGRAMME

**CONSERVATION, MANAGEMENT
AND VALORIZATION
OF CULTURAL HERITAGE**



Project financed by the Italian Institute for Foreign Commerce & Assorestauro



ICE - Agenzia per la promozione all'estero e
l'internazionalizzazione delle imprese italiane

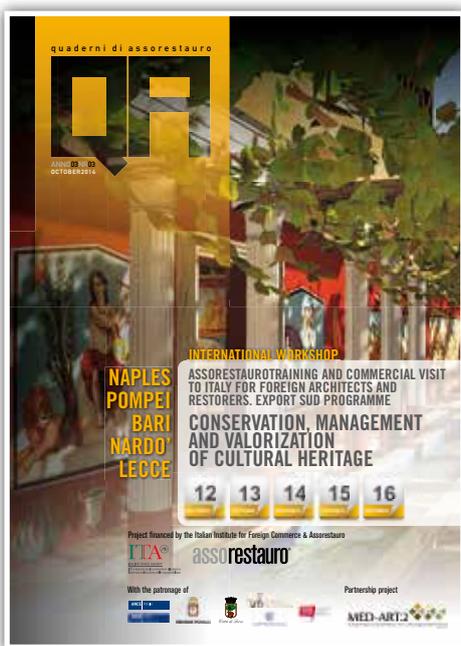
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sponsor presentation



ITALIAN TRADE AGENCY

ICE - Agenzia per la promozione all'estero e l'internazionalizzazione delle imprese italiane

The ICE-Italian Trade Promotion Agency is the government organisation which promotes the internationalisation of the Italian companies, in line with the strategies of the Ministry for Economic Development. ICE provides information, support and advice to Italian and foreign companies.

In addition to its Rome headquarters, ICE operates worldwide from a large network of Trade Promotion Offices linked to Italian embassies and consulates and working closely with local authorities and businesses.

ICE provides a wide range of services overseas helping Italian and foreign businesses to connect with each other:

- identification of possible business partners
- bilateral trade meetings with Italian companies
- trade delegation visits to Italy
- official participation in local fairs and exhibitions
- forums and seminars with Italian experts



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associazione italiana per il restauro architettonico, artistico, urbano
italian association for architecture, art and urban restoration

Assorestauro is the first association established in Italy for materials, equipment and technology producers and service providers for the restoration and heritage conservation sector. Among the associations involved in this sector, which includes various institutional bodies that represent designers or restorers, **ASSORESTAURO** is the first to finally give voice to the industry and the sector of specialised services, promoting their interests in promotional, legal and cultural areas. **ASSORESTAURO** seeks to represent the sector, both nationally and internationally. In regard to the Italian market, an increased sensitivity towards our architectural heritage, together with the diffusion of new technologies, point to a growth in the sector in recent years, both from the cultural point of view (debates, magazines, conventions, exhibitions) and from that of technology (innovative materials, machines and equipment, software, plant design etc.). This provides the industry with a great opportunity for increasing and strengthening the occasions for dialogue, which are often lacking, with professionals, on the one hand, and with institutions (Government departments, Universities) on the other. As far as foreign markets are concerned, there is a clear perception of the need to capitalise on the great prestige that Italy enjoys abroad in matters of cultural heritage and on the remarkable investment in cultural technology that Italian companies have made in recent years, in order to translate specialist skills and know how into business opportunities abroad.

ASSORESTAURO therefore has the scope of coordinating, protecting and promoting the interests of its associated companies, and fostering their progress and development, endorsing their products and services and representing them in their relations with the institutions and organisations working in the field of research and training, regulations and promotion. It also acknowledges the support and patronage of the main restoration Italian Trade Show and Events, recognising, together with its associated companies, the value of a trade fair appointment that has become an international point of reference.

The company carries out the following specific activities:

- it promotes studies and research and collects news, items and statistical data useful for sector information, and carries out studies, monitoring and analysis of the situations and developments in the markets;
- it participates in the elaboration and publishing of international regulations for the qualification of associated companies, assisting them and protecting them in the certification of the quality and security systems of their products and services;
- it directly and indirectly organises training or updating courses, research and conferences for the development and dissemination of technologies and the use of their products;
- it promotes and holds conventions, synergies and agreements among associations throughout the world.





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SOLUTIONS**

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■ Energy saving for historical heritage: the domotised lighting system of the Cathedral of Nardò (Lecce)

ENERGY SAVING FOR HISTORICAL HERITAGE

■ INTRODUCTION

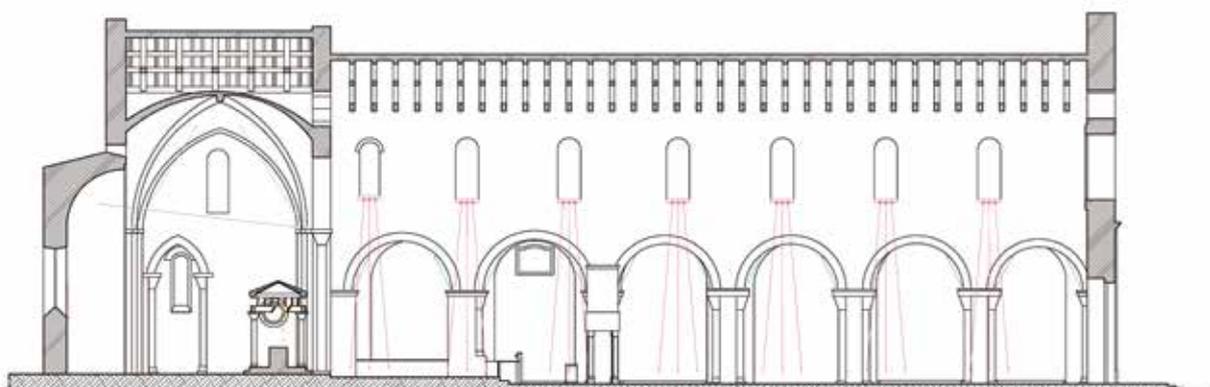
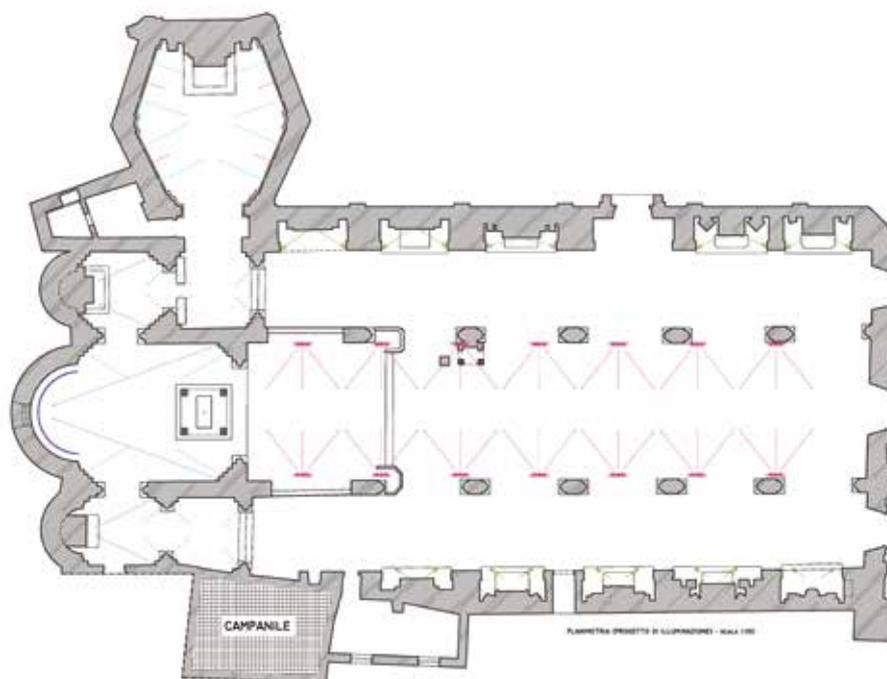
Our goal was to use domotics to transform the Cathedral of Nardò into a “smart building”, a first step towards the creation of a “smart city”. In brief, a domotic system is a system for the control and management of electrical or electrifiable apperals and devices, allowing, among other things, to optimise consumptions.

■ HISTORY

The original system of the Cathedral of Maria SS.ma Assunta of Nardò probably dates back to the VII-XI centuries. The first significant restoration intervention was carried out by the Benedictine monks after the 1245 earthquake. The oak crucifix dates back to more or less the same period: among the oldest wooden crucifixes in Southern Italy, it is commonly referred to as the “Black Christ”. Further restoration was carried out after the 1350 and 1456 earthquakes, followed by other interventions completed at the hands of various bishops, such as the Neapolitan bishop An-



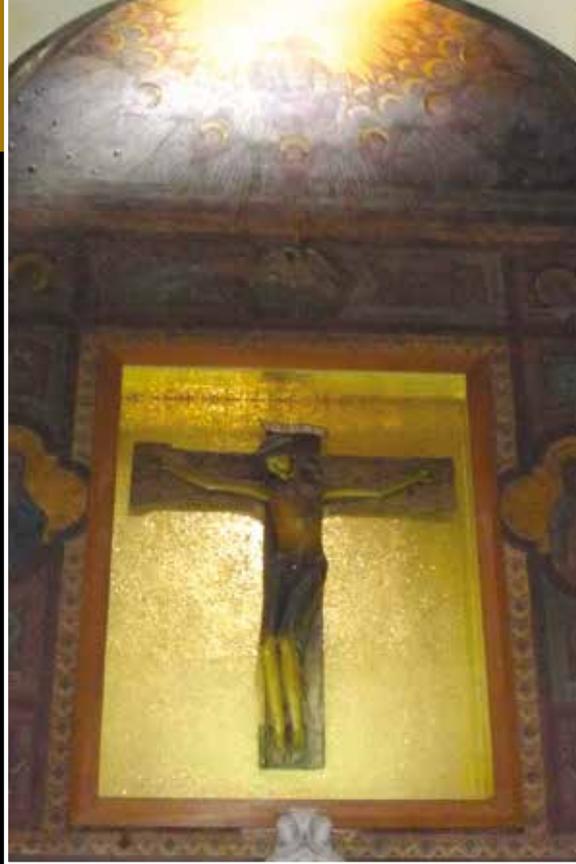
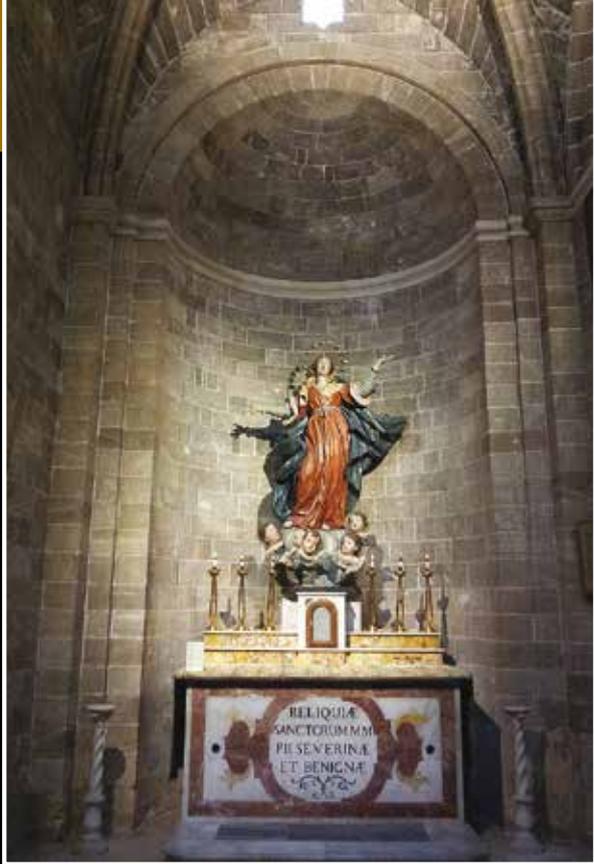




tonio Sanfelice (1708-1736), supported by his brother Ferdinando, a famous architect. In 1892, bishop Giuseppe Riccardi decided to start to demolish the Cathedral, but as soon as the first wall surfaces came down, the original medieval structure was unveiled: the baroque stuccos which had been disguising the ancient cathedral to follow the trends of the past were therefore removed and bishop Riccardi appointed the famous painter Cesare Maccari from Siena to fresco the chancel, the apse and the ogival vault in the presbytery.

■ THE DESIGN OF THE NEW LIGHTING SYSTEM OF THE CATHEDRAL

The design of the new lighting system of the Cathedral mainly focuses on energy saving systems and the compliance of the chosen illuminating devices with the real needs of the building,

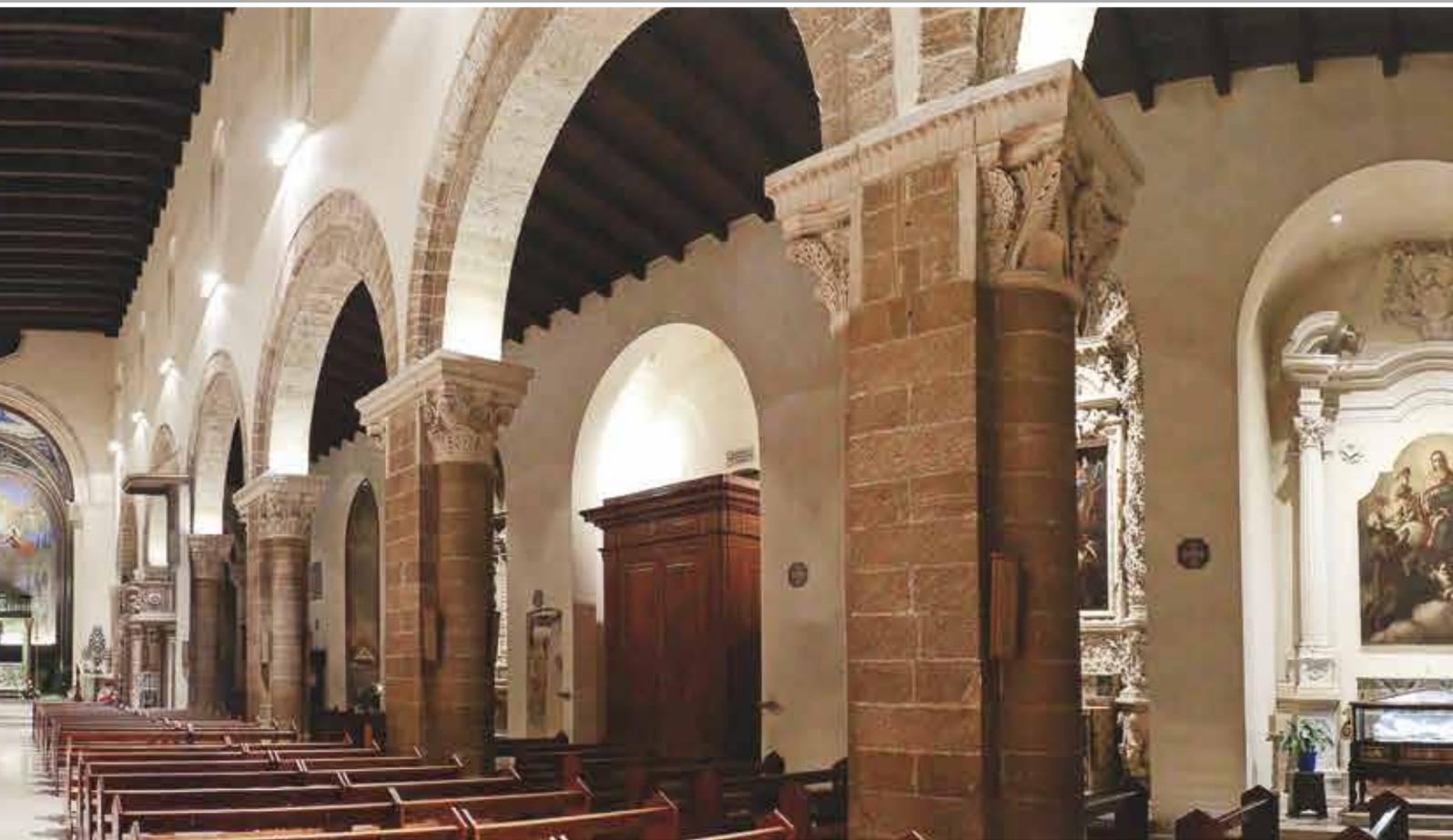


through a careful selection of the best solutions, in terms of luminous efficacy, Colour Rendering Index, life, luminous flux and colour temperature, to be positioned and angled according to the specific needs of each single room for the best luminous effect. The chosen illuminating devices are characterised by extreme flexibility, allowing to modify the luminous fluxes through a continuous regulation of the load; moreover, using both halogen and LED lamps (Light Emitting Diode) with dual KNX and DALI control systems (Digital Addressable Lighting Interface), the best illuminating effect is guaranteed, even for any future requirement. Particularly, all illuminating devices are custom and ad-hoc devices specifically conceived for the Cathedral and equipped, following our indications, with specific DALI feeders and therefore all adjustable and adaptable to each “functional scenario”. Having chosen the BUS system allows to save material, optimise the path of the conduit pipes and carry out quick and simple modifications at any time, simply excluding or adding illuminating sources in a “scenario” or creating brand new “scenarios” by means of elementary programming operations from the console, without needing a technician, exclusively required if the control unit is to be managed or if an update of the configuration is asked by the Customer. With specific reference to the Cathedral of Nardò, the (still on-going) qualification process is based on the analysis of a system aimed at providing the building with a new, modern lighting system as well as at optimising consumptions for a remarkable energy saving. For such reasons a domotic system was chosen, already experimented in 1998 in the Sanctuary of San Giuseppe da Copertino, one of the first protected sacred historical buildings in Italy to use domotics.



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COMING
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CONFERENCE

October 16th 2014
Palazzo Turrisi Palumbo
Via Marco Basseo 1, Lecce

Assorestauo training and commercial visit to Italy
for foreign architects and restorers. Expo sud plan

Conservation, Management and Valorization of Cultural Heritage

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OCTOBER

P R O G R A M M E

	Chairman: Stefano Pallara Assorestauro's Regional Delegate for Puglia and Basilicata
15.00 - 15,30	Welcome speech: Paolo Perrone Major of Lecce Loredana Capone Councillor for Productive Activities, Puglia Region Nicola Delle Donne President of Ance Puglia Vito Margiotta Confindustria Lecce
15.30 - 15,50 Michela Catalano Superintendence for the Architectural and Landscape Heritage of Lecce, Brindisi e Taranto	The Restoration Worksite: treasure chest of knowledge for the programmed conservation
15.50 - 16,10 Mariaenrica Frigione University of Salento	How innovative nano-materials can preserve the beauty of Lecce stone
16.10 - 17,30 Alessandro Bozzetti SPC	Real Albergo dei Poveri, Naples
Diego Aisa KIMIA	Lime based products for restoration of CH
Francesca Brancaccio B5	Restoration and reuse experiences on heritage buildings and sites
Giuseppe Latte Bovio Boviar	Methods and instruments for non-destructive tests
Beppe Fragasso Impresa Garibaldi	Calo' Carducci Palace in Bari
Stefano Pallara Studio Aerrekappa	Cathedral of Maria SS.ma Assunta, Nardò
Davide Mauri Domodry	Dehumidification systems
Giorgia Marrocco Pimar	Urbane Difensive Walls - Lecce
17.30 - 19,30	Coffe break, Matching and free b2b meetings

QA

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