International Congress
DOMES IN THE WORLD
With the High Patronage of the President of the Italian Republic

Florence
March 19 - 23, 2012
Auditorium al Duomo
Via de’ Cerretani, 54/r

www.domesintheworld.com

The Congress is part of the “90 Days for Intercultural Dialogue” Programme conceived and promoted by Fondazione Romualdo Del Bianco - Life Beyond Tourism® and included in UNESCO’s International Year for Rapprochement of Cultures Programme
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Organizing Secretariat
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Via del Giglio, 10 - Florence
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DOMES IN THE WORLD

The congress is part of a programme of activities promoted by the Fondazione Romualdo Del Bianco®-Life Beyond Tourism® to foster intercultural dialogue through the knowledge, interpretation and communication of different civilisations’ cultural heritage and through respect for cultural diversity. Florence, known the world over for Brunelleschi’s dome, is the ideal venue for a congress on domes, the materials and methods used in their construction, their symbolism, their conservation, their value in the cityscape and the fact that they form such a significant and emotional element in the identity of so many cityscapes in so many different cultures. Domes have always been, still are and will continue to be a factor for enthusiastic debate also among those peoples who have not adopted them as a roofing system, thus we hope that they, too, will participate extensively in this initiative.

Paolo Del Bianco
President of the Fondazione Romualdo Del Bianco®-Life Beyond Tourism®

Since its early appearances in Western European funeral buildings of the 6th and 5th millenary B.C., the dome has been widely adopted in architecture primarily for its symbolic reference to the celestial vault. Dome construction was then disseminated initially in the Eastern regions where it acquired civil and religious meanings. Later, as a result of Palladianism, they appeared in the New World and very New World (Australia), where they were built of earth or masonry, wood, steel, concrete or other materials, using a variety of building techniques from the simplest deducted from the imitation of nature, to the extremely sophisticated structural concepts. No other architectural element is so adapt in resuming the building capability achieved by a civilization, stir up deep spatial emotions or, with its peculiar but various shapes, confer special features to a landscape hence attaining a universally intelligible value.

Gennaro Tamponi
President of the Steering Committee

Programme

Monday, March 19th

h. 15.00 - 16.45
OPENING CEREMONY
Università degli Studi di Firenze, Aula Magna del Rettorato (Piazza San Marco, 4)

h. 17.00 - 18.30
WELCOME DRINK
Provincia di Firenze, Palazzo Medici Riccardi (Via Cavour, 1)
with the opening of the exhibition "EARTHEN DOMES OF SYRIA. AN ARCHITECTURAL CULTURE OF UNCERTAINTY"

Tuesday, March 20th

h. 8.15 - 19.00
Auditorium al Duomo, Via de’ Cerretani 54r
The participants registration
Opening of the Slide Center for the presentations uploading (Session 1 & 2)

h. 9.00
Auditorium al Duomo, Anfiteatro Andrzej Tomaszewski
Chairman: Franco Angotti

GENERAL CONGRESS INTRODUCTION
Vinicio Serino

GENERAL SESSION INTRODUCTIONS
Roberto Corazzi, Emma Mandelli, Gennaro Tamponi

SESSION 1
CULTURAL IDENTITY AND SYMBOLISM
Chairman: Carlo Blasi
Giorgio Croci
Arch: domes and vaults in the history of architecture (Key-note Lecture)
Stella Casiello, Giroluigi de Martino
Domes in Campania; natural and built landscape. Knowledge, restoration and conservation
Nicola Camerlenghi
The Millennial Absence of Dome Construction in Medieval Rome

Alessandro Castagnaro
The dome as a symbol of architecture during the “ventennio” in Italy between the two world wars
David Asatiani
The United States Capitol as Temple of American Democracy
Anna Agata Wagner
Dome in the sacral architecture - the spatial and symbolic considerations based on the projects for The National Temple of Divine Providence in Warsaw

Laura De Carlo, Emanuela Chiavoni
Geometry and symbols in Sant’Ivo alla Sapienza in Rome

10.30 – 13.30
Coffee / Brunch Station
The colors of domes in the desert; Oldouz Zarei: The effect of dome’s shape in making a sacred space

Domes (Case study of the mosques in Jordan); Mansour Safaran, Giuseppe Mazzacca: In Islamic Architecture and the Contemporary Orientations to the Design of Mosques’ Domes (Case study of the mosques in Jordan); Mansour Safaran, Giuseppe Mazzacca.

The dome as distinctive identity element of the landscape of humanity, in formal characteristics, materials, colour and light; Hoda Jafarian, Ismail Shahrouz Tehrani: Symbolism of dome in pre-Islamic and Islamic architecture of Iran; Brit Lababish: Dome in Iranian architecture, comparison of Soltanlyeh (1280 A.D.) and Chadir mosque (1977 A.D.); Anna Marotta, Serena Abelio: Symbolism of Buddhism: Dagobas in Sri Lanka; Salvatore Ferrucci: Dome and cave; Nuno Petrosoyan, Armenbik Garpyayan, Ruzan Artashesyan: Domes Symbolism and Genesis in Armenian Culture; Anuradha Ranade: Ancient Buddhist Stupa from Sanchi; Swapna Hemant Samel: Cultural Significance of World Largest Stone Dome - A Golden Pagoda Mumbai

Wednesday, March 21st

h. 8.15
Auditorium al Duomo, Via de’ Cerretani 54r
Opening of the Slide Center for the presentations uploading (Session 2 & 3)

h. 9.00
Auditorium al Duomo, Anfiteatro Andzej Tomaszewski
SESSION 2
GEOMETRIC GENESIS, SHAPE, SURVEY, ANALYSIS, DOCUMENTATION
Chairman: Francesco Gurrieri

Emma Mandelli, Michela Biggelli, Gaia Laboratti, Valentina Musto, Sandro Perrinello, Piero Saleni, Michelangelo Toffenithler, Laura Aello, Maria Emilia Gianvales, Stefania Urtigli, Chiara Cisolini, Sara D’Amico, Giulia Cateotti, Erica Ganghere, Francesca Grilloti Brunelleschi’s domes in Florence (Key-note Lecture)

Roberto Corazzi
The Secret of Brunelleschi’s Dome (Key-note Lecture)

Domenico Taddeo, Antonio Taddeo
The “spina-pesce” and the “corda-blanda”: Florentine tradition in the (self-supporting) domes rotating

Silvia Bertacci
The dome of Santa Maria del Fiore in Florence: a virtual Model

Grazia Tucci, Alessia Nobile, Maria Riemman
Laser scanner surveys and the study of the geometry and structure of the dome in the Basilica della Madonna dell’Umità in Pistoia

Nora Lombardini, Grazia Tucci, Valentina Bonora, Nadia Guarinii, Paolo Focaccia
The survey of the Dome of the Basilica of San Vitale in Ravenna

SESSION 3
CONSTRUCTION, IDENTIFICATION, CONSERVATION
Chairman: Paolo Spinelli

Paolo Rocchi, Andrea Valerio Canale, Corin Frasca
The History and Problems of Domes: from the ‘Grande Cupola’ of the Vatican Basilica to the Dome of the Basilica di San Bernardino in L’Aquila (Key-note Lecture)

Pietro Matracchi, Luca Giorgi
The dome of the Duomo of Siena. Construction sites during the thirteenth and fourteenth centuries and additions during later ages

Seyed Masoud Hosseini, Hossein Jamashid, Reza Parhizi: Dome, Eastern roof without column; Saverio Mecca, Letizia Dipasquale: Earthen domes and habitats of Northern Syria; Adriana Rossi: The ethos suggested by landscape markers: the tiled dome.

h. 11.15
Coffee / Brunch Station
10.30 – 13.30
19 -23 Marzo 2012 - March 19th-23rd, 2012

June 2011 - Roma - Italy

Departures: Simona Arena, Laura Velotta: The Chapel in the Park at Pratolinio; Survey of the Dome and the Prince’s Dreamscape Complex; Paolo Bertotoli, Mauro Luca De Bernardi, Isabel Almeida, Maria Chiara Bonora: The dome as a constituent body of the architectural form; Gioco Chiasm: Baza Hour – the most ancient Fire Temple of Iran; Jawdat Goussous, Wael Al-Azhar: Domes Formation in Middle East Islamic Countries; Ivane Gremelashvili: Bagrati cross building cathedral - symbol of religious and political unification of Georgia; Vittorio Guedda, Paolo Belardi, Fabio Bianconi, Marco Armeni, Nicola Cavallaghi, Luca Martin: The dome skyscraper of Caleazzo Alessi. The geometric and structural ambiguities of dome of the Saint Mary of the Angels Basilica; Elena Ippoliti: The dome in the churches’ projects by architect Gaetano Rapisardi, Amer Ansari Kasiri: Theoretical Principles of Geometry and Ornaments in the Architecture of Goharshad Mosque; Cosimo Monteleone: The revelation of art: the dome of the Guggeheim Museum by Frank Lloyd Wright; Gihan Mosaad: Domed roofs of Egypt: past and present; Alessandra Pagliano: Light and geometry in the starry sky of L. E. Boulou’s Camotopo.

Saying: A Survey and Forms Catalogue for Dome and Transitional Element Usage in Antiquity; Saverio Mecca, Andrea Valerio Canale, Corin Frasca
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The survey of the Dome of the Basilica of San Vitale in Ravenna

RETFREAT PRESENTATION – Emanuela Chiavoni, Referee
Eva Colsson, Daniele Ferreti: The contribution of structural modeling to understand the original shape of a disappeared Panthian dome; Piero De’ Innocenzo, Francesco Guarrieri: Brunelleschi’s Dome: the Dome of the Florence Baptistery of San Giovanni; Manuel Fortea, Domingo Garcia Pozuelo: The Florence dome: a story that still has not been told; Naser Hadi Dehghani: Re-reading the form of Chahar-taqy dome in Takt-i Solomon fire temple of Azerbaijan - by the evolution of Sassanid dome; Mehri Fadavi Haghi, Elham Ha- tami Golari, Marioum Fadavi Haghi: Whispering Gallery in domes - An acoustical Analysis of Imam mosque’s dome in Esfahan; Teyana Kachensky: Energytectonic properties of dome structures in architecture; Joubert José Lancha: Idea and ideal; Vaults and cupolas in Foladio’s Villa Foscati; Irem Mero Küsin: The ‘Revival’ of Dome in Secular Architecture of the Late-Ottoman Early-Republican Turkey; Eric J. Martin, Brian O’Keefe: The Shine Dome, the Australian Academy of Science, Canberra, Australia; Ali Pourafraziyabi, Hossein Jamashid, Reza Parhizi: Dome, Eastern roof without column; Saverio Mecca, Letizia Dipasquale: Earthen domes and habitats of Northern Syria; Adriana Rossi: The ethos suggested by landscape markers: the tiled dome.

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czyk: Hybrid domes made of glulam and steel - a study of the structure; Renato Orlandi, Alessandra Tosone, Stefano Balassone, Danilo Di Donato: From the rib to the cable: tradition, modernity and the contemporary in the domes to “metal structure” in Italy; Izis Salvador Pinto: Lightweight and transparent domes; Antonio Manuel Reyes, Manuel Fortea: Common Hispanic Domes and Vaulted Ceilings; Indranu Sudhendo: On a Unified Geometric Framework for Thin Translation Shells as Optimal Surfaces

Thursday, March 22nd

h. 8.15
Auditorium al Duomo, Anfiteatro Andrzej Tomaszewski
SESSION 3
CONSTRUCTION, IDENTIFICATION, CONSERVATION
Chairman: Jerzy Jasienko

Jean-Louis Taupin
Vault to be built without Centerings (Key-note Lecture)

Satprem Maini
Building optimized domes without formwork

Mina Radahmadi
Dome Transition in the Historic Shrine of Aziran, Iran

Franca Restuccia, Corrado Fanchino, Mariateresa Galizia, Cettina Santagati
The Etruscan landscape: the ‘muragghi’ through time

Gennaro Tampone
Rare Domes Simulating Timber Construction in Etruscan Hypogeal Tombs

Yury Yuzhakov
Wooden Domes of Architecture Monuments in Russia

Farzaneh Pashaee Kanali, Behroz Omrani
Wooden domes in the north west of Iran

Ettore Vio
The Domes of St. Mark’s Basilica in Venice, similar to each other, but different in structure and shape, in originality, history and building technique

Miquel Angel Chamsoro, Beatriz Garcia, Jordi Salvat
Construction of the tile vault Cap Sa Sal Hotel in Begur, Girona

Hadi Safaeipour, Akbar H.E. Zargar, Sajedeh Goudarzi
Typology of Khoshkhashs (stiffeners) in discontinuous double-shell domes

Alberto Lionello, Claudio Menichelli
The unusual dome of the Cappella Emilianiana on the Island of San Michele in the Venice Lagoon

Marco Giovanni Brambilla
Construction Techniques of the Dome of the Mausoleum of Uljaytu in Sultaniyah

Mahesh Varma, N.R. Varma, R.S. Jangid, V.G. Achwal
Grand Pagoda: world’s largest span masonry dome

REFERENCES PRESENTATION – Giuseppe Alberto Centauro, Referee
Gabriel Barbeta, Jordi Caminer, Estève Nararrete: Earth domes in a school building in Santa Eulàlia de Ronçana, Catalonia; Luca Giorgi, Pietro Maturacci: Variants and imitations in the landmark of the Dome of Santa Maria dei Fiore in Florence; Mahmoud Golabchi, Mehdi Khoramirouz: ribs in domes and Iranair’s historical structures: Integration of architecture and structure; Jerzy Jasienko, Tomasz Nowak, Anna Ostrzychar-
cukkaya, Sazuman Sazak: Conservation of dome mosaics of Hagia Sophia in Istanbul; Mohammadjavad Mahdavinejad, Soha Matoor, Armeen Doroodgar: Light in Iranian Domes (with an approach to structural matters); Mauela Pretlo, Aldo Benvenuto, Vittorio Ceradini: As the restoration brings the architect to win the graphic deception; Ro- sian Talib, Mohd Zailan Sulaiman: Conserving Concrete Dome in the Tropic; Giacomo Tempesta, Michele Paradiso, Stefano Galassi, Eva Pieroni: Structural analysis of polygonal masonry domes. The case of Brunelleschi’s dome in Florence; Reza Vahidzadeh, Behnam Pedram, Mohammad Reza Ovlia, Hossein Mosadeghzadeh: Tile-working on Safavid domes of Isfahan, the four hundred year old tradition of conservation and the contemporary challenges

POSTER SESSION - Presentations

Auditorium al Duomo, Sala Vasari

SESSION 3 CONSTRUCTION, IDENTIFICATION, CONSERVATION Chairman: Andrea Vignoli

Jerzy Jasienko, Marta Mocek, Andrzej Mocek, Danuta Wała
Concrete of the Centennial Hall: UNESCO List, Wrocław, Poland (Key-note Lecture)

Davor Uglešic, Miljenko Domjan
Reconstruction of St. James’s cathedrals dome in Šibenik

Ana Fernández-Cuartero Paramío, Juan Francisco de la Torre Calvo
Structural Repair of single layer masonry dome in Brihuega (Spain)

Silvia Briccoli Bati, Mario Fagone, Tommaso Rotunno
The dome-behavior analysis of the groin vault in the St. John Hospital in the Old City of Jerusalem

Michele Paradiso, Giacomo Tempesta, Stefano Galassi, Eva Pieroni, Elena Perría
The dome of the cathedral of Santiago de Cuba: degradation and consolidation

Mario Piana
The dome of Santa Maria della Salute in Venice: its construction and restoration

Laura De Lorenzis, Rossana Dimitri, Biancanevè Codacci-Pisanelli, Giorgio Zavarise
For a variation of the Mediterranean dome

Francesco Borgogni, Michele Calvano, Annika Moscati
“The Quadrature” of the Abbey Church of S. Maria at Vallombrosa – Case History of the central bay vault
Entrance free
Via de’ Cerretani 56r
Wednesday closed.
9.00 – 18.30,
Via Cavour 3
Medici Riccardi
Palazzo
9.00 – 18.00
Piazza San Giovanni 7
e Cultura
OPA, Centro Arte
Entrance free with h. 21.15
Wednesday, March 21, 2012
Santa Maria del Fiore Cathedral
19 -23 Marzo 2012 - March 19th-23rd, 2012
DOMES IN THE WORLD
CULTURE OF UNCERTAINTY
EARTHEN DOMES OF SYRIA. AN ARCHITECTURAL
IN THE HEART OF THE CUPOLA
Exhibition curated by Roberto Corazzi
The exhibition presents the dome of Santa Maria del Fiore – its history and investiga-
tions which have determined its geometric structure and the composition of the
materials Brunelleschi employed in its creation. It describes the procedures used and
the most advanced technologies used to investigate the interior of the inner
and outer domes which comprise the work. The exhibition is divided into sections
focused on the progress of investigations, exposition of various models of machines
designed by Brunelleschi, historical and current photographs of the most scenic
spots of the Cupola and finally patterns and pictures of other domes. The exhibition
is accompanied by audiovisual documentaries.

EARTHE DOMES OF SYRIA. AN ARCHITECTURAL
CULTURE OF UNCERTAINTY
Exhibition curated by Saverio Mecca and Letizia Dipasquale
Photographs by Luca Lupi
The arid climate has dominated the character of northern Syria for millennia, a de-
termining factor for settlement, architecture, building culture, use of land. The diffe-
rent populations inhabiting these regions down the millennia have had to restrict
their living and develop strategies to deal with climatic uncertainties, and chiefly
with the supply and availability of clean drinking water. The earthen dome habitats
express this exceptional fluctuating culture of uncertainty. This exhibition, based on
the results of the project “Coupoles et habitats. Une tradition constructive entre
Orient et Occident” (funded by the European Union Culture 2000 programme), is
proposing an original analysis and documentation of this unique architectural heri-
tage. The photographs of Luca Lupi, official photographer of the project, are an
ideal introduction to the world of earthen dome villages in Northern Syria.

DOMES IN THE WORLD
Photographic Exhibition
The exhibition in the Congress Caffe Astra al Duomo presents a selection of the
most beautiful photos sent to the organizers by the congress participants and uni-
versities students all around the world.

Concert
Messa sopra l’Aria di Fiorenza. In Annuntiacione Domini
Ensemble San Felice
Federico Bardazzi director - Martina Stecherova, Davide Fior soligregoriani
Music by GIROLAMO FRESCOBALDI (1583-1643) and MARCO DA GAGUANO (1582-1643)
The concert is organized by Opera di Santa Maria del Fiore (OPA) as part of the festival
“O flos colende”. For the participants of the International Congress “Domes in the
World” the places are reserved.

Visits
VISIT TO THE ETRUSCAN TOMB OF “MONTAGNOLA”
WITH THOLOS
at Quinto di Sesto Fiorentino
(conceived by Gennaro Tampone)
Discovered in 1959 (Chiosi, Mannini), the Tomb of an Etruscan aristocratic family,
called Tomba della Montagnola, is a false hypogeal construction covered by a tumulus
built in the Orientalizing Period (VII c. B.C.). The dome, that covers the whole funerary
chamber of the complex starting from the very floor, is a tholos (span and height of 5
m c.) shaped as a parabola, built with megaliths (rough slabs of stone of the local al-
berese formation) without mortar, using the technique of the corbelled domes that
doesn’t need centres, i.e. with progressively projecting elements. The pillar of lime-
stone voussoirs placed in the middle of the tholos has no structural function. The
complex, mainly the vestibule and the tholos, had been the object of a strengthening
work (Tampone, 1997). It has been recently restored. Close to this funerary complex,
the coeval one called Tomba della Mula, built exactly with the same technique, has a
tholos of the outstanding span (the largest in Etruria) of almost 10 m. The typology of
the funerary monumental complexes with tholos belongs to the tradition of Etruria
proper, systematically started in Vulci in the X – IX c. and continued up to the VII
(Tombs of Rasoio lunato, Pasidi cilindriche, Oreficerie, Carri etc.) also including other
large funerary complexes as those of Vetulonia (Tomba del Diavolo), Casalmant-
trino, Casaglia, Cargnano (Tomba di Montefortini). (GT)

VISIT TO BRUNELLESCHI’S DOME
(conceived by Roberto Corazzi)
Brunelleschi’s famous Dome is the largest masonry dome ever built: its maximum in-
ternal diameter is 45 m, and the external measures 54 m. Its magnitude prevented
traditional building methods which employed a central support system and many
theories about its construction technique have been formulated and debated.
During the guided tour participants will visit the famous Italian Renaissance architec-
tural monument and, with the help of the experts, they will discover in detail the con-
struction techniques Brunelleschi used. (RC)

VISIT TO THE PALAZZO MEDICI RICCARDI
Palazzo Medici Riccardi has a particularly fascinating history, rich in art and also in po-
litical, cultural and worldly events. The history of this palazzo, one of the finest and
most famous in Florence, is an integral part of the history of the city, marking out all
the important stages in its development. Built in the mid fifteenth century by Michelozzo on commission from the Medici, the
building became the prototype of Renaissance civil architecture. The robust and au-
spective pile of the mansion, originally designed as a sort of cube, was for at least a cen-
tury the most direct and efficacious symbol of the political and cultural primacy of the
Medici in Florence. After a period of neglect, in 1659 the Medici sold it to the Riccardi
who extended the building northwards and partially renovated the interior. The modi-
fications of Baroque flavour, particularly intensive in the last two decades of the cen-
tury, were on the keynotes of lavish show and sophisticated erudition. When fortune
wandered and the sun set on this splendidour, in 1814 the Riccardi sold the palazzo to the
State. Since 1874 it has belonged to the Provincial Authority, which since the begin-
rning of the last century has adopted a policy aimed at the reclamation and valorisa-
tion of the building itself and the works housed within.

Due to the limited spaces all the guided tours (in Italian or English) can be organized for
groups of 15-20 persons. For advance booking please contact the organizing secretariat
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