



ICCCM 2017

5th International Conference on Computational Contact Mechanics

5-7 July 2017, Lecce - Italy



Banca Popolare Pugliese

ORGANIZERS

G. Zavarise, Università del Salento, Italy

P. Wriggers, Leibniz Universität Hannover, Germany

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ICCCM 2017

**V International Conference
on Computational Contact Mechanics**

5-7 July 2017 - Lecce, Italy

General Info & Daily Program

COMPUTATIONAL CONTACT MECHANICS

Proceedings of the V International Conference on
Computational Contact Mechanics, held in Lecce, Italy

5-7 July 2017

Edited by

Giorgio Zavarise

University of Salento, Italy

Peter Wriggers

Leibniz Universität Hannover, Germany

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PREFACE

In the last years, Computational Contact Mechanics has been a topic of broad interest and very intense research. The main effort has been devoted to the development of robust solution schemes and new discretization techniques, which can be applied to different classes of contact problems.

Previous meetings in the ICCCM series were held in Lecce (2009 and 2013) and Hannover (2011 and 2015). All these meetings have been very successful and, together with the present one, they are becoming an established event in the field.

The aim of the V International Conference on Computational Contact Mechanics is to provide an international forum for researchers, practitioners and for all the scientists who are concerned with modern computational techniques and applications in the field of Contact Mechanics.

The organizers hope that this event will provide a platform for participants to discuss recent advances and identify future research directions in the field.

The Conference program is divided into eleven sessions related to specific topics. Four keynote lectures, presented by internationally recognized researchers in this field, will provide an overview on current research directions.

It is planned to invite authors of selected contributions to submit a full paper after the conference, for inclusion in a special issue of an international journal or in another publication of international relevance.

Lecce, July 2017

The Chairmen of ICCCM 2017

G. Zavarise & P. Wriggers

PATRONAGES & SPONSORS

The conference organizers acknowledge the support towards the organization of the ICCCM 2017 to the following organizations:

 <p>UNIVERSITÀ DEL SALENTO</p> <p>Università del Salento</p>	 <p>European Community on Computational Methods in Applied Sciences</p>	
 <p>Department of Innovation Engineering</p>	 <p>Dipartimento di Matematica e Fisica "Ennio De Giorgi"</p> <p>Department of Mathematics and Physics "Ennio De Giorgi"</p>	
 <p>Leibniz Universität Hannover</p> <p>Leibniz Universität Hannover</p>	 <p>Graduate School MUSOC Multiscale Methods for Interface Coupling</p> <p>Graduate School Multiscale Methods for Interface Coupling</p>	
 <p>Banca Popolare Pugliese</p> <p>Banca Popolare Pugliese</p>	 <p>EnginSoft S.p.A.</p>	
 <p>Puglia Region</p>	 <p>Province of Lecce</p>	 <p>City of Lecce</p>

CONFERENCE ORGANIZERS

Chairmen

Giorgio Zavarise (Chairman)

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INTERNATIONAL SCIENTIFIC COMMITTEE

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Andreas Almqvist	Luleå University of Technology, Sweden
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Przemyslaw Litewka	Poznan University of Technology, Poland
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Udo Nackenhorst	Leibniz Universität of Hannover, Germany
Eugenio Oñate	Universitat Politècnica de Catalunya, Spain
D. Roger J. Owen	Swansea University, UK
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Michel Raous	Laboratoire de Mecanique et d'Acoustique CNRS, France
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Robert L. Taylor	University of California at Berkeley, USA
Barbara Wohlmuth	Technische Universität München, Germany
Tarek Zohdi	University of California at Berkeley, USA

KEYNOTE LECTURERS



Jakub Lengiewicz

Institute of Fundamental Technological Research of the
Polish Academy of Sciences

Contact model for soft volumetric actuators



Udo Nackenhorst

Institute of mechanics and Computational Mechanics,
Leibniz Universität of Hannover - Hannover, Germany

**stochastic multi-scale contact computations for tire
dynamics simulation**



Marco Paggi

IMT School for Advanced Studies Lucca

**Computational methods for fracture and contact at
interfaces: cohesive zone model, phase field
approach, micromechanics**

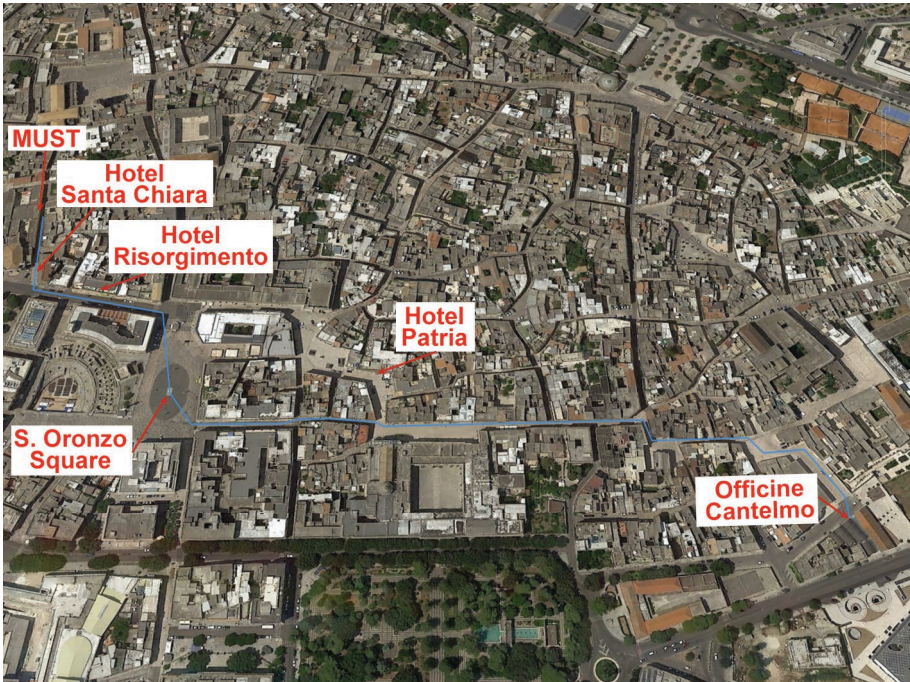


Mathieu Renouf

Université de Montpellier - Montpellier cedex - FRANCE

Numerical modeling of Tribological Interface

VENUE



The conference takes place at the “Officine Cantelmo”, (address: Corte dei Mesagnesi, Lecce)

Capital of the homonymous province and the cultural fulcrum of Salento (Apulia), Lecce is one of the most beautiful art cities in southern Italy. Known as the “Florence of the South,” Lecce knows how to surprise and intrigue visitors and locals alike: its ancient Messapian origins and its archaeological ruins, left behind after Roman domination, fuse with the richness and exuberance of the Baroque churches and palaces (typically from the 1600s).

Lecce and Salento, with the beauty of the historic centers, of the landscapes and the coasts, attract tourists from all over the world

CONFERENCE INFORMATION

Pre-Registration

Conference registration will start on **Tuesday, July 4**, during the **Welcome Reception at MUST** (Historical Museum of the Town of Lecce - Via degli Ammirati 11), between 6.00 – 8.00 p.m.

Registration

You can register on-site and pick up the conference material at the Conference Registration Desk at the Officine Cantelmo Hall on:

Wednesday July, 5 8:00 -18:00

Thursday July, 6 8:30 -16:00

Friday Jul7, 7 8:30 -17:00

The Registration Desk will also serve as Conference Office during the conference

Presentations: Time & Equipment

Each regular presentation is allocated to 20 minutes, including questions.

Each keynote lecture presentation is allocated to 40 minutes, including questions.

If you wish to use your own PC, connection to the projector **must be tested** before the beginning of your session.

WI-FI facilities

The EDUROAM wireless connection is available in the “Officine Cantelmo”. Hence, Eduroam users will have direct access, while a password will be provided for all the other participants.

Coffees & Lunches

A coffee break area will be available at the conference venue.

A lunch buffet is also offered to the participants.

EVENTS & LOCATIONS

TUESDAY, JULY 4

- **18:00 - 20:00 - Pre-registration & welcome cocktail**
The event will take place at MUST - Historical Museum of the Town of Lecce, Via degli Ammirati 11.

WEDNESDAY, JULY 5

- **8:00 – 9:20 - Registration & opening**
The event will take place at the Conference location: Officine Cantelmo, (address: Corte dei Mesagnesi, Lecce)
- **17:40 - Guided tour of the town**

THURSDAY, JULY, 6

- **16:40 – Departure from Lecce: Visiting tour to Gallipoli**
- **19:50 – Departure from Gallipoli: Cocktail & Conference Dinner**
Masseria Pizzofalcone - SS 476 Cutrofiano-Supersano, 73040 Supersano (LE)

FRIDAY, JULY 7

- **16:40 - Conference Closure**

SCIENTIFIC PROGRAM

Wednesday, 5 July			
8:00	Registration		
9:00	Opening		
9:20	Keynote 1		
	U. Nackenhorst	Stochastic Multi-Scale Contact Computations for Rolling Tire Simulations	
10:00	Session 1, Chaired by A. Popp		
	10:00	T.A. Palanichamy, U. Nackenhorst, A. Suwannachit	A novel approach for rolling contact simulations using coupled ALE-Lagrangian framework
	10:20	C. Curreli, L. Mattei, F. Di Puccio	Computational aspects in three-dimensional Finite Element simulations of pin-on-disc wear test using submodeling
	10:40	R. Schouwenaars, M.Á. Ramírez, V.H. Jacobo, A. Ortiz	Statistical simulation of the effect of fractal dimension and resolution of randomly rough surfaces used in asperity-based contact models
11:00	Coffee break		
11:20	Session 2, Chaired by A.G. Neto		
	11:20	M. Fortin, T. Diop, J. Deteix	Frictional contact : 1-numerical approximation and algorithms
	11:40	T. Diop, M. Fortin, J. Deteix	Frictional contact : 2-numerical results
	12:00	G. Wautelet, R. Boman, J.P. Ponthot	On some Improvements of the Augmented Lagrangian Treatment for Solving Frictional Contact Problems
	12:20	B.R. Akula, J. Vignollet, V.A. Yastrebov	Frictional Contact and Wear Along Virtual Interfaces: Coupling the Mortar Method with the X-FEM

	12.40	R. Mlika, Y. Renard, F. Chouly	An unbiased Nitsche's formulation of large deformation frictional contact and self-contact
	13:00	A. Popp, C. Meier, M. Oshima	Novel contact algorithms for nonlinear beam models – Beam-to-beam contact, beam-to-solid mesh tying and beam-to-solid contact
13:20	Lunch		
14:20	Keynote 2		
		J. Lengiewicz	Contact model for soft volumetric actuators
15:00	Session 3, Chaired by G.E. Stavroulakis		
	15:00	T.N. Baranger, S. Andrieux	Identification solutions with contact problems via the solution of the Cauchy Problem
	15:20	T.X. Duong, L. De Lorenzis, R.A. Sauer	An extended isogeometric mortar contact method
	15:40	P. Antolin, A. Buffa, M. Fabre,	A mixed formulation for large deformation contact problem using IsoGeometric Analysis
	16:00	M.A. Puso, B. Liu, P. Tsuji, E. Kokko	Coupling Lagrangian and ALE Finite Element Meshes with Contact
16:20	Coffee break		
16:40	Session 4, Chaired by U. Nackenhorst		
	16:40	A. Leichner, H. Andr�a, B. Simeon	Numerical Solution of Contact Problems in Cartesian Grids using Level Set Functions
	17:00	A.G. Neto, P. de M. Pimenta, P. Wriggers	Master-slave contact formulation accounting for rotation of slave points
	17:20	P.R.R. de Campos, A.G. Neto	Master-surface to master-surface contact formulation applied to rigid-flexible multibody systems
17:40	Guided tour of the town (about two hours)		

Thursday, 6 July

8:30	Registration		
9:00	Keynote 3		
	M. Paggi	Computational methods for fracture and contact at interfaces: cohesive zone model, phase field approach, micromechanics	
9:40	Session 5, Chaired by R. Dimitri		
	9:40	<u>G. Costagliola</u> , L. Brely, F. Bosia, N.M. Pugno	Adhesion of hierarchical surfaces
	10:00	<u>G. Borino</u> , F. Parrinello	A cohesive interface formulation in large displacements
	10:20	R. Serpieri, M. Albarella, G. Alfano <u>E. Sacco</u>	A 3D multiplane cohesive interface model combining damage, friction and interlocking
	10:40	<u>D. Neusius</u> , J. Orlik, V. Shiryaev	Computational truss model for large knitted structures of hyperelastic strings with Coulomb friction and adhesion
11:00	Coffee break		
11:20	Session 6, Chaired by G. Borino		
	11:20	<u>M.A. Chaudry</u> , C. Weißenfels, A. Düster, P. Wriggers	Computational modelling of granular materials during confined compression
	11:40	G.A. Drosopoulos <u>G.E. Stavroulakis</u> ,	Multi-scale homogenization for masonry structures
	12:00	<u>M.J. Lewandowski</u> , S. Stupkiewick	Micromechanical contact model for Cosserat continuum
	12:20	R. Simonart, M.C. Salvadori, T.J. Massart, <u>P.Z. Berke</u>	Coupled experimental-computational investigation of PMMA-Au nanocomposite by Atomic Force Microscopy

	12:40	V.L. Popov, R. Pohrt, Q. Li	Adhesive Contacts: Boundary Element Simulations and Experiment
	13:00	R. Dimitri, G. Zavarise	An innovative treatment of frictional contact and mixed-mode debonding problems based on IGA
13:20	Lunch		
14:20	Session 7, Chaired by E. Sacco		
	14:20	P. Cinat, M. Paggi, C. Borri	Surface roughness genomics
	14:40	E. Milanese, R. Aghababaei, J.F. Molinari	The role of hardness in the surface roughness evolution during adhesive wear processes
	15:00	A. Kopanicakova, R. Krause, M.G. Nestola, D. Vogler, C. von Planta, P. Zulian	A Parallel Semigeometric Monotone Multigrid Method for Contact in Rough Rock Surfaces
	15:20	R.L. Gates, U. Nackenhorst	Rough surface contact: improved efficiency and robustness through the incorporation of multi-freedom constraints
	15:40	J. Rojek, D. Lumelskyj, S. Nosewicz, B. Romelczyk	An elastoplastic contact model for spherical discrete elements
16:00	Coffee break		
16:40	Bus departure from Lecce: Visiting tour to Gallipoli		
19:50	Bus departure from Gallipoli: Conference dinner at “Masseria Pizzofalcone” – Supersano		

Friday, 7 July

8:00	Registration	
9:00	Keynote 4	
	M. Renouf	Numerical modeling of Tribological Interface
9:40	Session 8, Chaired by J. Lengiewicz	
9:40	<u>F. Pérez-Ràfols</u> , G. Lindkvist, P. Jonsén, A. Almqvist	On the contact between elasto-plastic layered solids with rough interfaces
10:00	A. Seitz, C. Ager, W.A. Wall, A. Popp	Nitsche's method for finite deformation elasto-plastic contact
10:20	<u>T. Sluzalec</u>	A Signorini contact problem in rigid-viscoplasticity
10:40	<u>Z. Dostál</u> , O. Vlach	Scalable TFETI based domain decomposition for contact problems with variationally consistent discretization of non-penetration
11:00	Coffee break	
11:20	Session 9, Chaired by G. Zavarise	
11:20	<u>L. Kazaz</u> , P. Ziegler, P. Eberhard	Modelling Fluid-Solid Contact using Elastic Multibody Systems and Meshfree Fluid Descriptions
11:40	<u>A.G. Shvarts</u> , V.A. Yastrebov	A strong coupling scheme for the thin fluid flow through the contact interface between wavy surfaces
12:00	A. Ochal, <u>M. Jureczka</u>	Numerical treatment of contact problems with thermal effect
12:20	<u>P.A. Trapper</u>	Pipeline - soil interaction for pipe-lay on a seabed with nonlinear stiffness
12:40	<u>I.S. Trubchik</u> , L. Evich, E. Ladosha	Modeling the effect of alternating gradient elastic properties of the thin coating of a rigid foundation on the stress state near the contact region coating with non-deformable stamp

	13:00	<u>Z. Zhang,</u> <u>Z. Tan,</u> <u>X. Bai,</u> <u>X. Yao</u>	Numerical studies on mechanism of tool self-optimization in friction stir welding
13:20	Lunch		
14:20	Session 10, Chaired by P. Wriggers		
	14:20	<u>S.P. Venugopalan,</u> <u>L. Nicola</u>	Contact deformation of self-affine metal surfaces: A Green's function dislocation dynamics approach
	14:40	<u>P.T. Zwierczyk,</u> <u>K. Varadi</u>	Complex FE analysis of a railway wheel-rail connection
	15:00	<u>L. Morançay</u>	A comparative study of contact formulations for Crash simulation
	15:20	<u>D. Horak,</u> <u>Z. Dostal,</u> <u>V. Hapla,</u> <u>J. Kruzik,</u> <u>R. Sojka,</u> <u>M. Cermak</u>	Projector-less TFETI for contact problems implemented in the PERMON toolbox
	15:40	<u>J. Sohn,</u> <u>C. Jun</u>	Comparison of contact analysis between a rigid body and fluid with experiment
	16:00	<u>A.A. Nada</u>	Effect of Sliding Velocity on Gear's Contact Based on Non-Holonomic Lagrange Multipliers
	16:20	<u>V. Škurić,</u> <u>P. De Jaeger,</u> <u>H. Jasak</u>	Lubricated Contact Model for Metal Forming Processes in OpenFOAM
16:40	Conference closure		
16:50	Coffee break		

SOCIAL PROGRAM

Guided tour of the historical center of Lecce Wednesday, July 5, 17:40

The participants will be divided in small groups, each one with a touristic guide, for a short visit of the most important monuments within the historical center. The tour will last about two hours.



Apulia is fast becoming the new hot destination, while the seductive capital of the Salento region, Lecce, is increasingly fascinating any visitor. The town, after early influences by the Greeks, Romans and Normans, is one of most perfectly Baroque gems in Italy, unchanged since the 16th/17th centuries.

It's still quite undiscovered – there are no queues for museums or churches, nor masses of tourists crowding the narrow cobbled streets of the city. The cuisine – hearty "cucina povera" ("peasant's food") – is a revelation with simple, fresh recipes that are influencing young chefs in chic bistros in London and Paris. And don't expect Lecce to be a typical sleepy southern town – after dark, with a big student population, the city buzzes until well after midnight.

Guided tour to Gallipoli

Thursday, July 6 – Bus departure from Lecce at 16:40

Gallipoli is a fishing village on the southern coast of Apulia, with an interesting old town built on a limestone island and linked to the mainland by a 16th century bridge. Its harbors are used by fishing boats and there's plenty of fresh seafood. The name Gallipoli comes from the Greek *Kallipolis*, which means “beautiful city”, as this area was once part of ancient Greece.

The highlight of a visit is the Old Town of Gallipoli. It is very picturesque and a nice place to stroll through its maze of alleys. The 17th century Baroque Cathedral of Sant'Agata is in the center of the town. Several interesting churches are along the perimeter of the old town facing the sea. The walls and bastions surrounding the old town are believed to have been built in the 15th century to fend off attacks, especially from pirates. The walls were altered in the 19th century permitting beautiful views of the sea, port, and harbors.



Conference Dinner

Thursday, July 6, - Bus departure from Gallipoli at 19:50

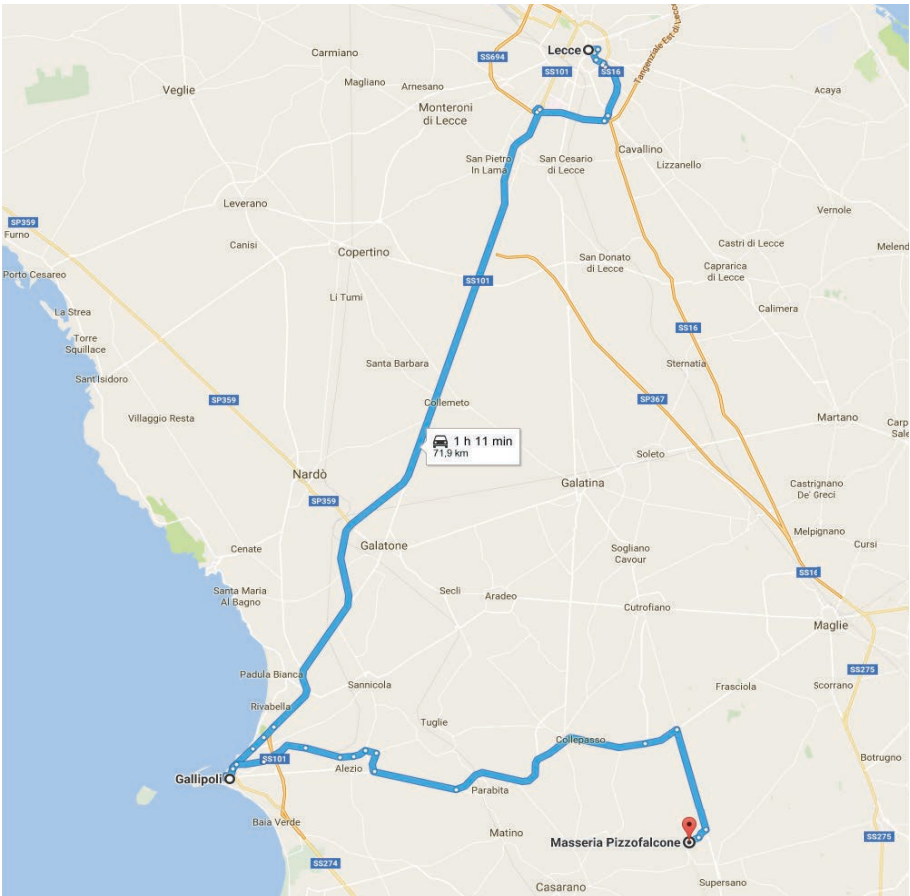
There is a place in the heart of Salento which is strewn with ancient olives and fragrant citrus trees, with a lot of farms edged by dry stone walls with a long history. At the foot of a gentle hill, it rises from the rocks with a backdrop of woods and looks out over a sweep of olives and citrus trees in front. This is the ideal place for those wishing a holiday in the countryside of Salento, as well as for people who love the aromas of herbs, the flavors of the Mediterranean, and walk in the open air.

NOTE: some rooms will be available for people that wish to change their clothes after their tour in Gallipoli.



Address: SS 476 Cutrofiano-Supersano
Contrada Masseria Pizzofalcone
73040 SUPERSANO (LE) ITALY

Tel: +39 0833 632363 **Cell:** +39 339 2819487



MUSEO FAGGIANO - A JEWEL IN THE OLD TOWN

The Faggiano museum is placed in the historical center of Lecce. Everything was born almost by accident in 2001, when the owner was forced to break up the floors to change the drainpipe. During these works it began to resurface historical and archaeological sites of great interest, which testify to the presence of ancient events of time. Today the house is a real archaeological site, where you can admire more than 2000 years of history.



Open daily from 9:30 to 20:00

Via Ascanio Grandi, 56 – Lecce (5 min from S. Oronzo main square)

Tel: +39 0832 300528 Web: www.museofaggiano.it

Conference participants have a free entrance ticket.

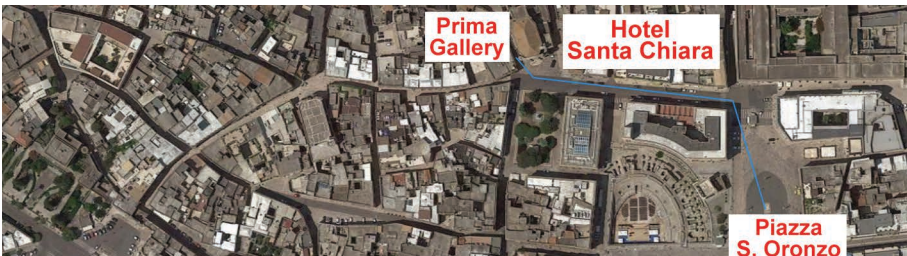


PRIMA – GALLERY SHOP EVENTS AND WINE

With the opening in Lecce of his Gallery, Roberto Tondi confirms his wish to participate in the artistic life of the city, enriching it with a new exhibition space. The premises, originally used as a storeroom for antiques, have been refurbished, taking care to preserve the original architecture, combined here with elements of modernity in order to create a marked contrast between ancient and modern that makes this exhibition space so distinctive. A space designed for various uses, flexible enough to meet the needs of the exhibitors and able to host not only art shows and book launches, but also events and debates, in an intimate and evocative atmosphere.



Open daily from 10:00 to 14.00 and from 16.00 to 21:00
Via Arte della Cartapesta 25 (Piazzetta Santa Chiara) – Lecce
Cell: +39 329 9827311 Web: www.robertotondi.it



COME BIO COMANDA – NATURAL PRODUCTS

Come Bio Comanda is a shop of monastic, organic and natural products. A place to visit, to learn how to appreciate the taste of the good and the beautiful. Here you can find jams, creams, honey, grappa and spirit, balsamic vinegar, sauces and soups of legumes and cereals bio of the Monastery of Siloe, chocolate and several others delicacies.



Open daily from 9:30 to 13:00 and from 17:00 to 20:00

Via Palmieri, 30 – Lecce

Cell: +39 320 6056177 Web: www.facebook.com/comebiocomanda



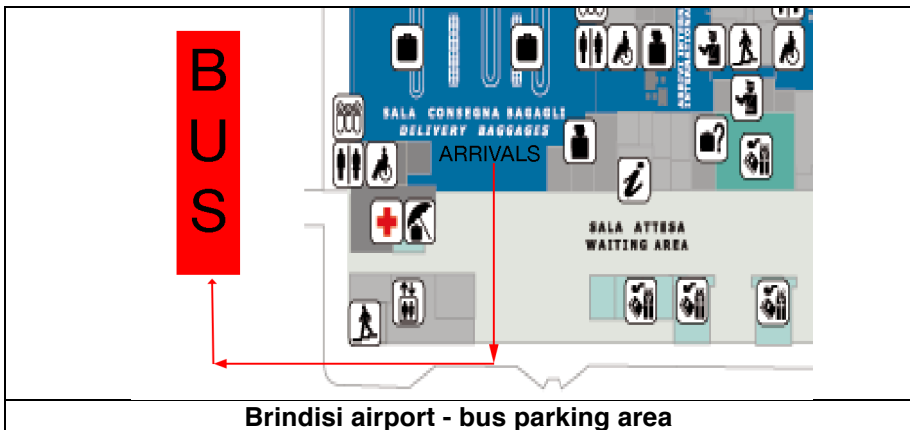
BRINDISI AIRPORT – LECCE CONNECTIONS

SHUTTLE BUS

Bus from the Airport to the Lecce city terminal

The Shuttle Bus service to Lecce stops at the Lecce Air Terminal (close to the historical center). There are not so many races a day, but they provide a good service for most of the flights. Ticket prices: 8 euro on board, 6.50 euro at the airport bookshop.

Downtown hotels are at walking distance (about 1,5 km) from the Air Terminal. A taxi service is also available.



Orario giornaliero in vigore dal 26 marzo 2017

		GIOR	GIOR	GIOR	GIOR	GIOR	GIOR	GIOR	GIOR
	<i>note</i>	(1)	(1)	(1)	(1)	(1)	(1)	(2)	(2)
LECCE (Largo C. Bene)	p.	05:00	06:55	09:20	11:10	14:00	16:20	17:30	20:15
BRINDISI Aeroporto	a.	05:40	07:35	10:00	11:50	14:40	17:00	18:10	20:55
		GIOR	GIOR	GIOR	GIOR	GIOR	GIOR	GIOR	GIOR
	<i>note</i>	(1)	(1)	(1)	(1)	(1)	(1)	(2)	(2)
BRINDISI Aeroporto	p.	06:00	08:35	10:50	13:00	14:50	17:20	19:25	21:30
LECCE (Largo Carmelo Bene)	a.	06:40	09:15	11:30	13:40	15:30	18:00	20:05	22:10

Lecce – Brindisi airport connections timetable

Taxi service from the city terminal

From the Lecce Air terminal to everywhere in the town: price is about 13 euro, Tel. +39 0832 1680068.

BUS+TRAIN**Bus from Airport to the Brindisi train station**

A bus to the Brindisi train station is available also every 30 minutes. Ticket prices: 1.50 euro on board, 1.00 euro at the airport bookshop.

Train from Brindisi to Lecce

From the Brindisi train station, you can reach Lecce in about 30 min (36 trains per day). Train timetables are available here: <http://www.trenitalia.com>
 Downtown hotels are at walking distance (about 1 km) from the train station. A taxi service is also available.

Taxi service from the train station

From the Lecce train station to everywhere in the town: price is about 13 euro, Tel. +39 0832 1680068.

TRANSFER SERVICE**Pool taxi service**

Airshuttle provides a pool taxi service for 20 euro. The ride has to be booked at least one day in advance here: https://www.airshuttle.it/index_eng.asp.
 The price is cheap, but sometimes you have to wait for other passengers.

Private transfer service

We have a transport service operated by the company Itersalento. The transfer has to be booked in advance. Contacts: tel: +39 0832 2279196, cell: +39 338 4862297, email: info@itersalento.it.

Transfer from/to	1/3 pax	4/8 pax	9/16 pax
Brindisi Airport - Lecce	55 €	80 €	160 €

Hotel transfer service

For their guests, Hotel Risorgimento and Hotel President provide also a direct transfer service, at a good price, from/to the Brindisi airport.

Hotel Risorgimento: info@risorgimentoresort.it Tel. +39 0832 246311

Hotel President: info@hotelpresidentlecce.it Tel. +39 0832 456111

Taxi at the Brindisi airport

The taxi service is also available directly from the airport. The service is quite expensive (about 70 euro). We recommend to agree both the price and the place where to go with the driver in advance.

BARI AIRPORT – LECCE CONNECTIONS

TRAIN

Shuttle train from the airport to the Bari train station

A shuttle train service is provided from the airport to the Bari train station. The timetable is available here: <http://www.ferrovienordbarese.it/times>.

Train from Bari to Lecce

From there you can reach Lecce by train (about 1:30 hours, several trains per day). Train timetables are available here: <http://www.trenitalia.com>.

TRANSFER SERVICE

We have a transport service operated by the company Itersalento. The transfer has to be booked in advance. Contacts: tel: +39 0832 2279196, cell: +39 338 4862297, email: info@itersalento.it.

Transfer from/to	1/3 pax	4/8 pax	9/16 pax
Bari Airport - Lecce	145 €	160 €	300 €

TAXI SERVICE IN LECCE

For any ride in the town: price is about 13 euro, Tel. +39 0832 1680068.

