

ATRIA

CAST IN PLACE CONCRETE

BRAZILIAN HERITAGE



Expressive, resistant and with multiple possibilities of use, the concrete is a constructive solution of strong identification with the Brazilian architecture. An important part of the modernist and brutalist movements, the structural material was extensively explored in façades, brises, internal walls, stairs and furniture by architects such as Lina Bo Bardi, Oscar Niemeyer, Vilanova Artigas, Ruy Ohtake and Paulo Mendes da Rocha.

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CAST IN PLACE IN BRAZIL

The years have passed and the concrete still retains space in residential projects. Explanations for this range from the contemporary and original aesthetic - each structure molded with the material is unique, result of the trace, curing and deformation process - the possibility of dispensing coatings and reduce maintenance costs. Once cured and deformed, the material could receive only a surface waterproofing treatment.

REGULATION

In regard to cast in place concrete structures the main local regulations are:

- NBR 6118 - Design of concrete structures - Procedure
- NBR 15200 - Design of concrete structures in a fire situation
- NBR 6.118 Design. Structural. Plain concrete. Reinforced concrete. Prestressed concrete. Concrete.
- NBR 6124 - Water absorption test;
- NBR 12655 - Portland Cement - preparation, control and receipt;
- NBR 12653- "Pozzolanic materials - Requirements". 2012

National Museum, Brasília, Brasil.



Itamaraty, Brasília, Brasil. Copyright Bento Viana.

BRAZILIAN ARCHITECTS

LINA BO BARDI

“Architecture is created, ‘invented again’, by every man walking in it, running through space, climbing the stairs, or resting on a guardrail, raising his head to look, to open, to close a door, to sit or get up and have an intimate contact and at the same time create ‘shapes’ in space ...”

Lina Bo Bardi

Italian-Brazilian architect (1914-1992). One of the most important and expressive architects in twentieth century Brazilian architecture. During World War II she faced a difficult period after her office was bombed. She met the critic and art historian Pietro Maria Bardi, whom she married and moved to Brazil.

She consolidated her importance in the scenario of modern architecture from the moment she moved to São Paulo due to an invitation made to Pietro to found and direct the São Paulo Art Museum Assis Chateaubriand - MASP. Lina stood out for understanding the Brazilian culture from an anthropological perspective, attentive mainly to the convergence between aesthetic vanguard and popular tradition.

Lina Bo Bardi. Courtesy of Lina Bo e P.M. Institute



Lina Bo Bardi Glass House, São Paulo, Brasil.

OSCAR NIEMEYER

“It’s not the right angle that attracts me. Not the straight, hard, unyielding line created by man. What attracts me is the free and sensual curve. The curve I find in the mountains of my country. In the sinuous course of the senses, in the clouds of the sky. On the body of the woman of choice. From curves the whole universe is made “

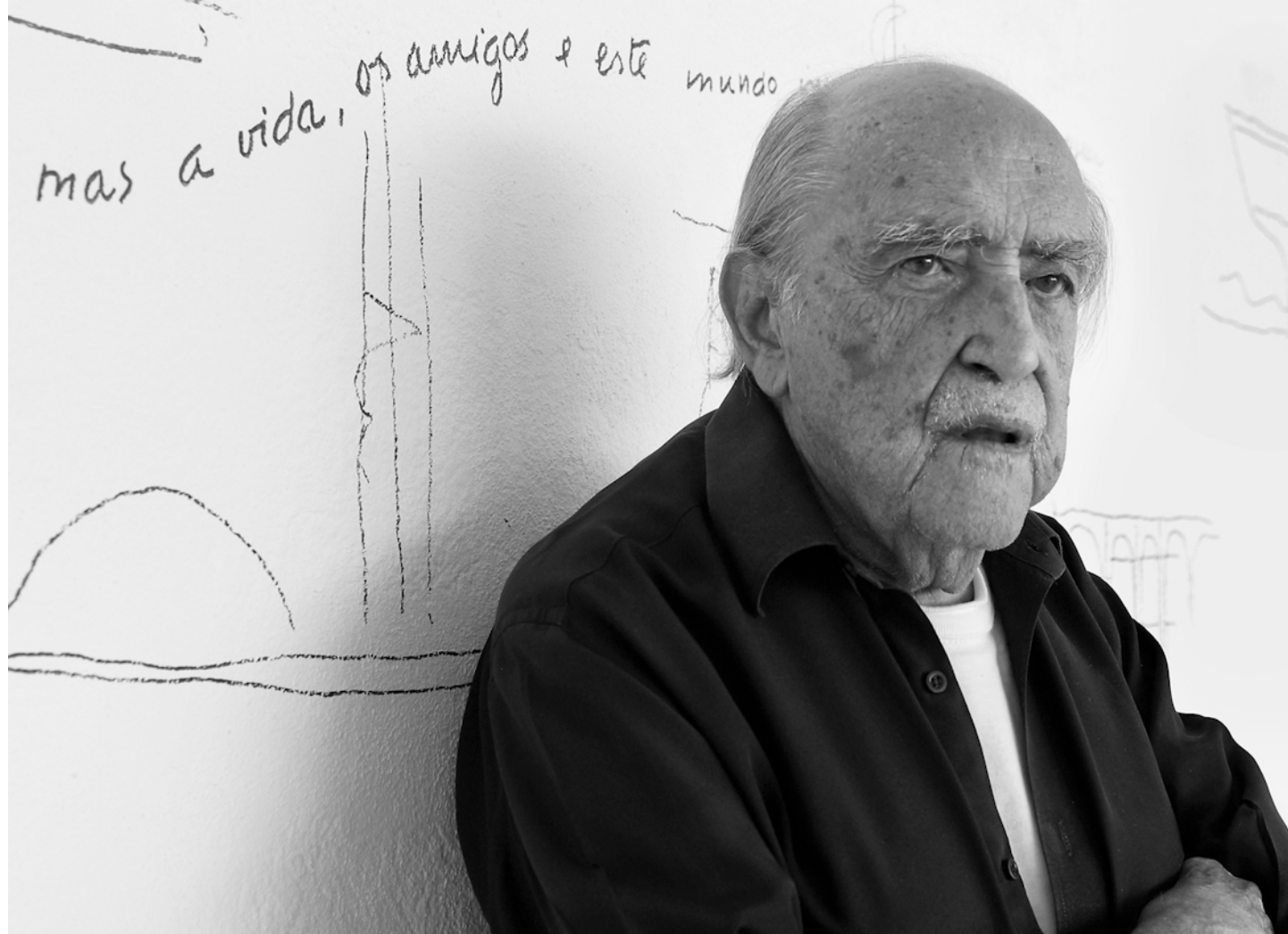
Oscar Niemeyer

Oscar Niemeyer (1907-2012) is one of the he greatest exponents of Brazilian modernist architecture. Born in Rio de Janeiro in 1907, he graduated from the School of Fine Arts.

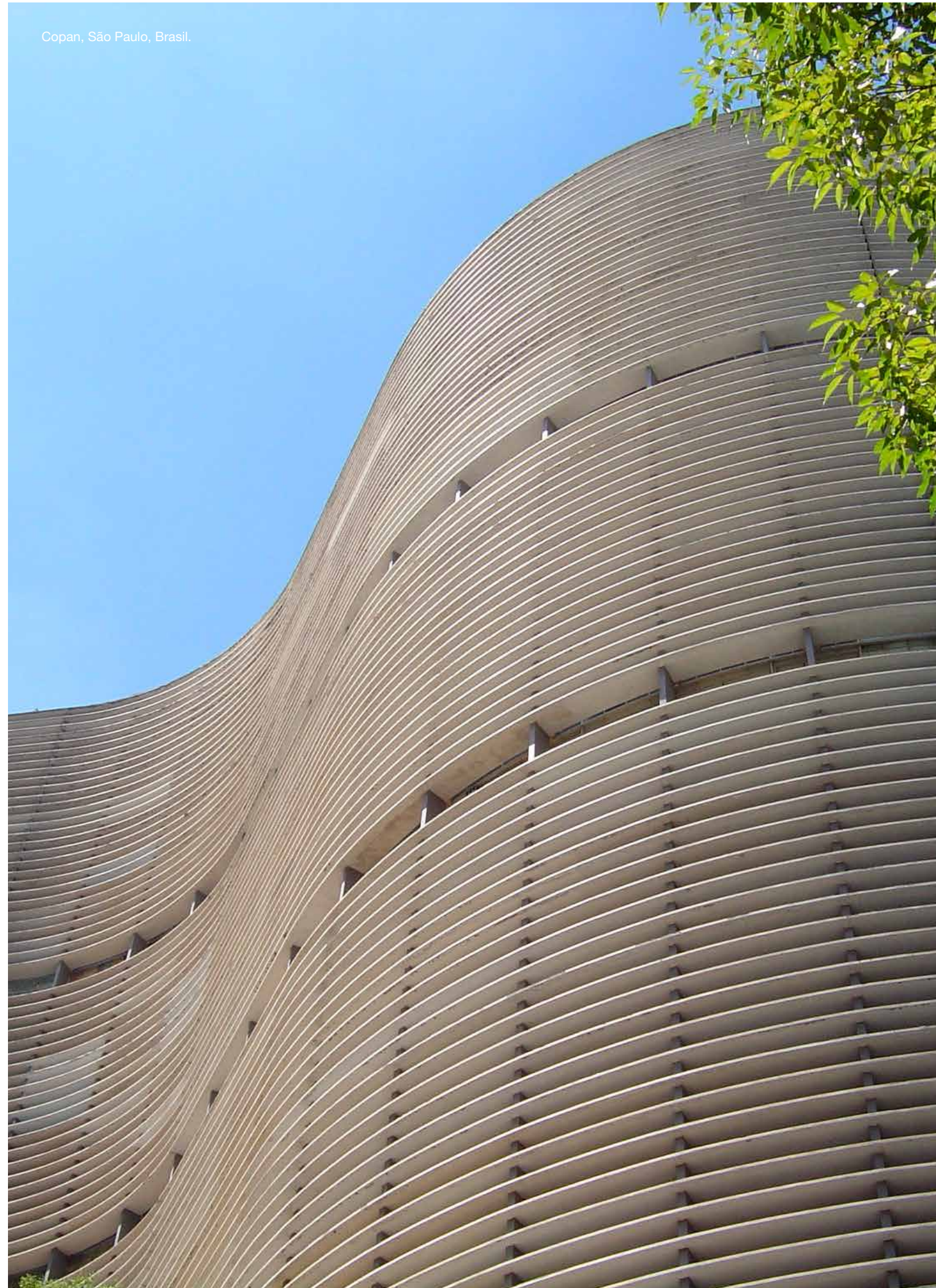
He has been at the forefront of important projects, such as the set of civic buildings in the city of Brasilia, as the Brazilian National Congress, the Alvorada Palace, the Planalto Palace and the Federal Supreme Court.

Niemeyer won the Pritzker Architecture Award in 1988. He remained active until his death in 2012 after extensive career. One of his last completed works was the Digital TV Tower in Sobradinho, Federal District.

Oscar Niemeyer. Courtesy of CAU-RJ



Copan, São Paulo, Brasil.



CASE STUDY

BLM HOUSE

ATRIA
2014



photos by Haruo Mikami



cover image



CASE STUDY

BLM HOUSE

TEXTS CREDITS

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