

The Magazine from Carl Zeiss – Special Edition

Innovation

7



Planetariums
SPECIAL

Video Projectors vs. Night Sky Contrast?

- **powerdome - Three Steps to Projection**
- **The New Wonder of Jena - Planetarium with ADLIP**
- **FullDome Festival in Jena**



Three New Star Theaters in Brazil



Luiz Sampaio
 Director
 Omnis Lux –
 Astronomia & Projetos
 Culturais, Brazil

Ever since the first Carl Zeiss planetarium was installed in Brazil 50 years ago, the number of ZEISS planetariums there has constantly increased. In addition to the well-known large-dome star theaters in Rio de Janeiro and São Paulo, a great many medium- and small-dome facilities have come into being that are equipped with Carl Zeiss projection equipment. Since 1984, Omnis Lux has been the exclusive and highly successful Carl Zeiss agent for planetariums in Brazil.

The year 2008 is marked by the introduction of digital projection technology. Omnis Lux has landed several big, demanding projects centered around the coupling of optical-mechanical and digital projection:

- The first Brazilian planetarium to have digital full-dome projection is under construction in Belo Horizonte. Equipped with SKY-MASTER ZKP 4 and powerdome®SPACEGATE, it is scheduled to be opened in the second half of 2008.
- Another system comprising SKY-MASTER ZKP 4 and powerdome®SPACEGATE has been sold to Feira de Santana, the second-largest city in the State of Bahia. Here, too, the planetarium is intended to become operative in 2008.
- A large planetarium is being built in Santo André near São Paulo. The 18 m dome will accommodate the latest planetarium technology from Carl Zeiss: A STARMASTER StarBall and a powerdome®4DOME system will combine to deliver fantastic projections.

With these three new projects, Carl Zeiss remains the leading planetarium supplier on the Brazilian market and proves its strong position in the digital realm.



The Planetarium in Belo Horizonte will be part of the "Science Square" in the city center, a joint project of the Brazilian federal government, the Federal University and the company TIM Brasil.



The Planetarium in Feira de Santana will be the heart of the new cultural park, the city's prime cultural center.



The architect's design shows the Planetarium of Santo André at the heart of the SABINA Education Center, a science park that will also be devoted to art and technology.

Unbroken Trust in Carl Zeiss Technology

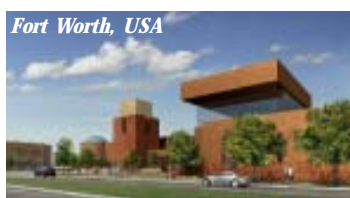
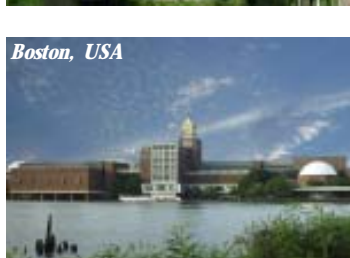
Our order books are well filled. The majority of orders are for combinations of an optical-mechanical projection machine with a digital powerdome®System. We see this as a sign that our customers have embraced our concept of combining classical projection of the star-studded sky with digital full-dome projection.

Orders for our new SKYMASTER ZKP 4 small-dome planetarium are absolutely outstanding: We have booked almost twice the number of orders expected. Certainly, the integration of fiber-optic systems, digital control of the planet projectors and direct coupling with our powerdome®Planetarium are the decisive reasons for the extremely great interest in the ZKP 4.

The demand for large-dome systems is undiminished, too, as evidenced by the projects in Beijing, Nagoya, Boston and Santo André. The city of Nagoya is erecting the worlds biggest planetarium and has ordered a UNIVERSARIUM Model IX for it. The first single starball will be delivered to Santo André: A STARMASER SB creates the bright starry sky, whereas all didactic projections are generated by the powerdome®Planetarium.

Grown trust in our competence in digital full-dome projection finds expression also in projects exclusively comprising full-dome technology, as in Jeju, South Korea (see front cover).

We can offer customers for our powerdome®Systems a great number of full-dome shows. We have all the capacities needed for their marketing, source data processing and providing ready-to-play video and audio files.



Almaty Planetarium

Almaty, Kazakhstan
SKYMASTER ZKP 4
10 m dome

Beijing Planetarium

Beijing, China
UNIVERSARIUM Model IX
23 m dome

Belo Horizonte Planetarium

Belo Horizonte, Brazil
SKYMASTER ZKP 4
powerdome®SPACEGATE Duo
9 m dome

Planetario de Bogotá

Bogotá, Colombia
powerdome®4DOME
23 m dome

Charles Hayden Planetarium

Museum of Science
Boston, MA, USA
STARMASER ZMP
18 m dome

Bucheon City Library

Bucheon, South Korea
SKYMASTER ZKP 4
powerdome®SPACEGATE Quinto
10 m dome

Planetario della Citta

Cosenza, Italy
STARMASER ZMP
powerdome®EDITION
15 m dome

Planetarium Feira de Santana

Feira de Santana, Brazil
SKYMASTER ZKP 4
powerdome®SPACEGATE Quinto
13 m dome

Noble Planetarium

Museum of Science & History
Fort Worth, TX, USA
SKYMASTER ZKP 4
powerdome®SPACEGATE Quinto
11 m dome

Planetarium in the Science Park

Gaziantep, Turkey
SKYMASTER ZKP 4
powerdome®SPACEGATE Quinto
10.8 m dome

Jeju City Planetarium

Jeju, South Korea
powerdome®EDITION
18 m dome

Museum of Cosmonautics "K. E. Tziolkovsky"

Kaluga, Russia
SKYMASTER ZKP 4
powerdome®SPACEGATE Quinto
10 m dome

Univ. of Nebraska Planetarium

Kearney, NE, USA
SKYMASTER ZKP 4
9.1 m dome

Bays Mountain Planetarium

Kingsport, TN, USA
SKYMASTER ZKP 4
powerdome®SPACEGATE Quinto
12.2 m dome

Nagoya City Science Museum

Nagoya, Japan
UNIVERSARIUM Model IX
35 m dome

SABINA Planetarium

Santo André, Brazil
STARMASER SB
powerdome®4DOME
18 m dome

Novins Planetarium

Ocean County College
Toms River, NJ, USA
SKYMASTER ZKP 4
12.2 m dome

Planetarium Mt. San Antonio College

Walnut, CA, USA
SKYMASTER ZKP 4
11.5 m dome