

MONDO®

No 17 • FIRST QUARTER 2010

SPACES

Taiwan

Kaohsiung
Stadium

Canada

Peter Lougheed
Centre

Spain

University
of Deusto



Kaohsiung
Stadium



“We aimed to open the boundary between the inside and outside of the stadium to create an atmosphere in which the whole site becomes a large park enveloping the stadium.”

Kaohsiung Stadium



The magnificent Kaohsiung Stadium designed by Toyo Ito & Associates, architects, is a remarkably open structure that is situated in an expansive and verdant park. The “C” shape of the building opens onto a park and a rapid transit station to the southeast. The spiraling steel roof emphasizes the architectural program of fusing interior and exterior spaces, blending them into a continuum. Situated on 47 acres surrounded by lush vegetation in Kaohsiung, Taiwan, the stadium is an eco-friendly achievement. The 8,844 solar panels on the roof generate 1.14 million kilowatt-hours of electricity a year, reducing carbon dioxide emissions by 660 tons annually. The people of Kaohsiung enjoy the many benefits of this structure and its park throughout the year.

Mondo Spaces interviewed Junji Oga, associate architect at Toyo Ito & Associates.

What guided your decision in developing this innovative new “Open Stadium”?

We sought to open the south part of the stadium not only as an idea but also physically. We achieved this “openness” in the way that the building guides spectators into it from the newly constructed MRT [rapid transit] station, which serves as a gate for the stadium. The steel pipes of the roof canopy spiral around the whole stadium and reach southward to Zhong Hai Road. It serves to lead people into the structure while heightening their sense of elation.

Were you influenced by the fact that the stadium would host the 2009 World Games?

Kaohsiung is the second largest city in Taiwan. It is a vital city with remarkably abundant parks and a pleasant climate and its citizens are energetic and vibrant. The spiral continuum of the roof structure captures the energetic nature of the people and city, and is intended to engender the enthusiasm and spirit of

the athletes and the spectators. In terms of the colors of the playing surfaces, we chose blue for the track and red for the infield. The blue evokes coolness and the red symbolizes the tropics. This vivid color scheme accurately portrays the image of Kaohsiung.

The project is an innovative design that is also eco-friendly. How did you meet the challenge of combining the two?
There are two points I'd like to make.

One, we regarded the whole site as an urban park that would be a place for people to relax surrounded by abundant nature even on days when there were no events in the stadium. The park includes two biotopes, or environmental habitats.

As for the structure, the solar panels that cover the entire roof provide great energy conservation. The result is that we have built an eco-friendly and sustainable sports facility.

The facility is very open to the public. How do you think this will influence the architecture of other sports facilities?

Most traditional stadiums have closed forms. We aimed to open the boundary between the inside and outside of the stadium to create an atmosphere in which the whole site becomes a large park enveloping the stadium.

That allows us to link activities outside the stadium with those on the field inside. For example, unlike in traditional stadiums where access is constrained, marathon contestants enter from the expansive gate in the southeast and run directly onto the track, sprinting to the finish line in a very open performance.

While this open concept may not work in the center of a dense urban space due to noise and vibration, here, surrounded by nature, we could devise a new type of sports facility.

Junji Oga is a graduate of Kyoto University's School of Technology and joined Toyo Ito & Associates in 2004



Peter Loughheed Centre

With a rapidly growing population and aging facilities being demolished, Alberta Health Services embarked on a large expansion program. This included five new facilities, one of which was the Peter Loughheed Centre in northeast Calgary. The existing hospital, built in 1985, included full services, but with an increase in emergency department visits and a declining per capita bed count, a new facility was urgently needed. The 398,000 sq. ft. expansion provides for a number of new programs and facilities including; six new inpatient units, intensive care unit, cardiac unit, dialysis, mental health, and a future expanded emergency department. The project design commenced in 2005, with the first units being occupied in 2009.

HOK + Alberta Health Services'

Innovative solutions were applied throughout the entire project including; wireless computer stations for documenting patient conditions on-the-go, a high percentage of single patient rooms (with the flexibility of adding a second bed if necessary), and support and monitoring equipment that is hung from ceiling mounted booms to avoid accidents. The intensive care units are also strategically designed to provide ample visibility from staff monitoring stations and to adjacent units.

The design is inspired by the strong Albertan landscape – Rocky Mountains, tumbling water, golden prairies and a limitless sky. Strong horizontal lines, expansive glazing and geometric patterns, inspired by crop arrangements, are used throughout to create a 'home away from home' for patients, visitors and staff. Each patient room is also outfitted with a subtle, individual character expressed on the exterior of the building, which reminds the community that patients are not just another number.

From its inception, the Project Team planned to have the Peter Loughheed Centre addition as a LEED project. HOK integrated many sustainable principles into the design of the Peter Loughheed Centre including; operable windows, VOC free paint, recycled content ceilings, PVC free guardrails, infection resistant fabrics, plenty of natural light in all patient rooms, and highly efficient mechanical systems. All materials were thoroughly tested by operations, infection and clinical user groups to make sure the products were not only sustainable, but functional.

Flooring selection was a rigorous process as hospitals need a balance between durability and comfort to support staff, equipment and maintenance for many years without replacement. Too resilient and the heavy equipment will not roll, too firm and it becomes uncomfortable for those who spend their entire day on it. The team searched for materials that were natural, could withstand harsh cleaning and that came in a variety of colors. Eventually deciding on rubber flooring and after several months of use, staff has given the material a ringing endorsement!



“The design is inspired by the strong Albertan landscape – Rocky Mountains, tumbling water, golden prairies and a limitless sky.”

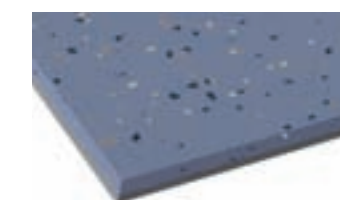


About HOK

HOK is a global design firm that specializes in planning, design, and delivery solutions for sustainable interiors, buildings and communities. We work with a diverse range of clients in health care, education, government, workplace, hospitality, residential, science + technology, and transportation + aviation. The firm's expertise includes architecture, interiors, regional and urban planning, strategic facilities planning and sustainable design. HOK has studios worldwide including Toronto, Ottawa, Calgary and Vancouver.

About the surface: **Harmoni 3 mm**

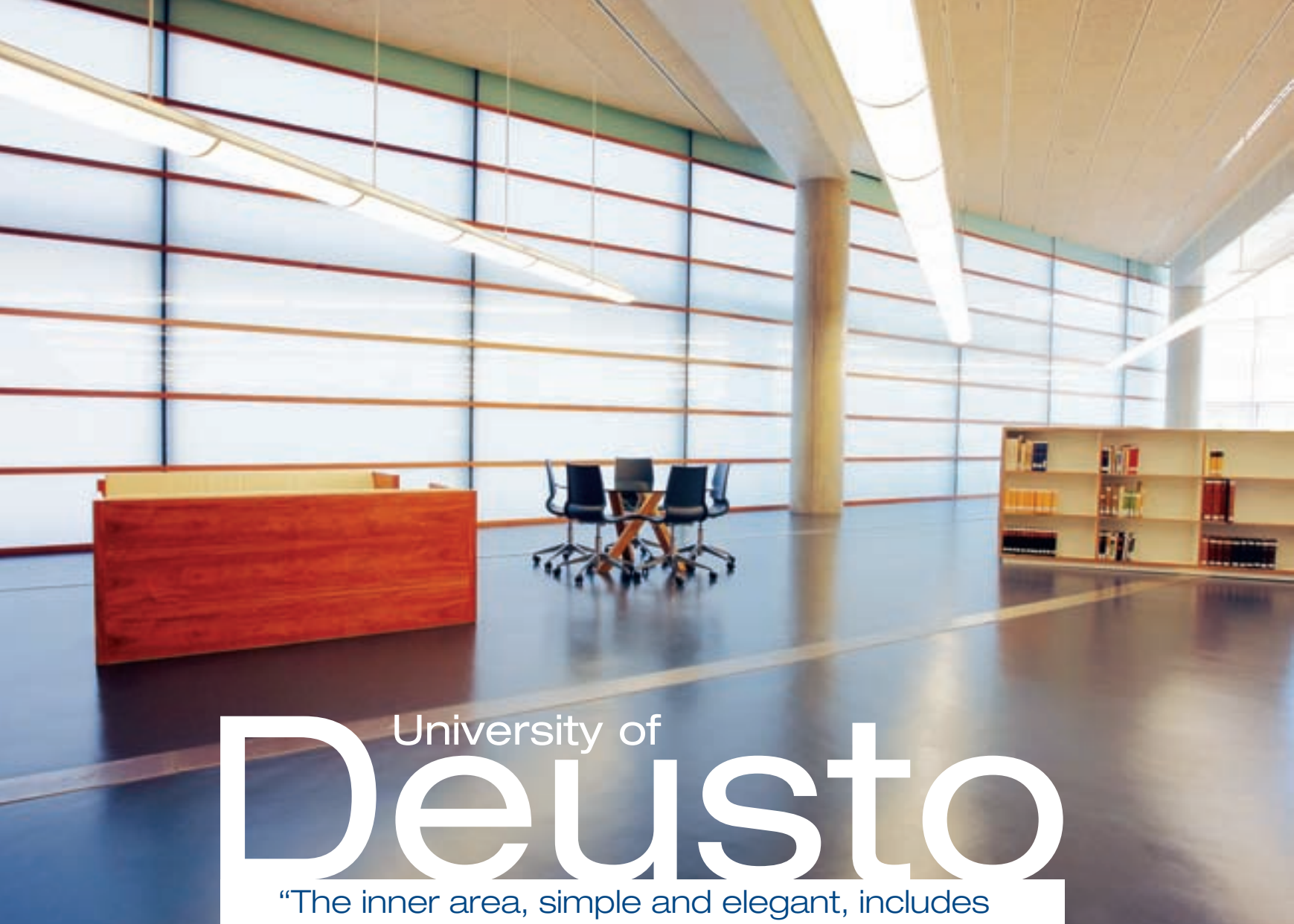
Innovative dual durometer construction



Exceeds ADA requirements (ASTM D2047) for slip resistance
Chemical & stain resistant
Significant noise reduction (up to 22 dB)
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Greenguard Certified Compliant with California IAQ requirement section 01350

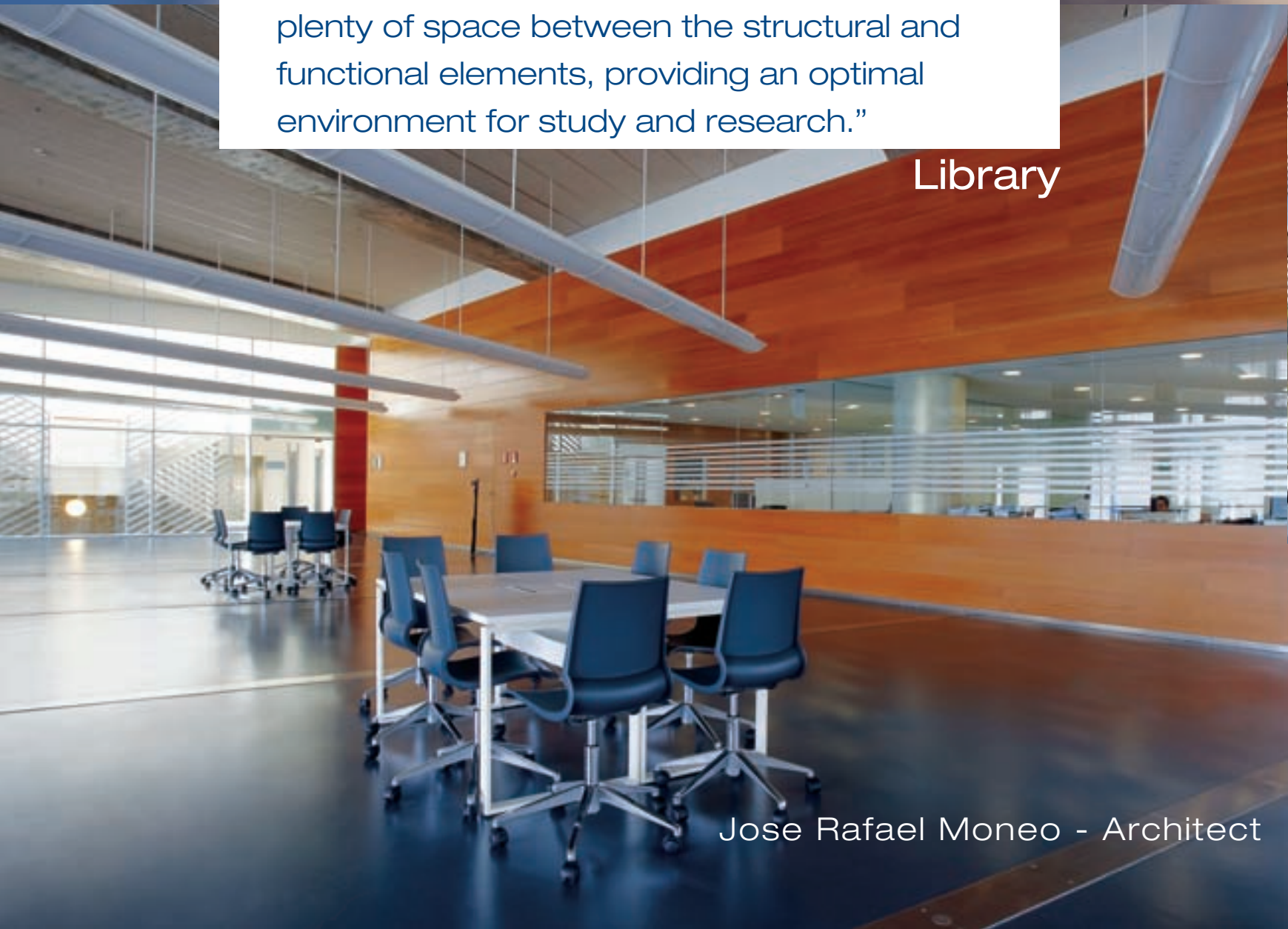
10% post-industrial recycled rubber
Easy to recycle
Low maintenance creating outstanding life-cycle costs compared to sheet vinyl, VCT and carpet
Antibacterial & antimicrobial throughout



University of Deusto

“The inner area, simple and elegant, includes plenty of space between the structural and functional elements, providing an optimal environment for study and research.”

Library



Jose Rafael Moneo - Architect

Opened in 2008, the University of Deusto Library has added further architectural interest to the area of Abandoibarra, in Bilbao, Spain, which is already known as the site of a Santiago Calatrava footbridge, a Melia Bilbao Hotel by Ricardo Legorreta and the world-famous Guggenheim Museum by Frank O. Gehry.

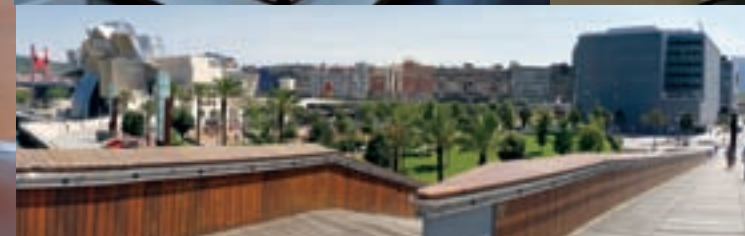
Located 200 meters from the Guggenheim, the library was designed by the architect Rafael Moneo to complement Gehry's work. The monolithic building is softened by the transparent effects of the extensive use of glass surfaces while being perfectly compatible with the curved titanium panels and the organic structures of the iconic museum. The idea behind the design was to use different materials to create a building, that from a distance, would appear monolithic, monochromatic and neutral to balance the bright titanium of the Guggenheim and to blend harmoniously with the green area of the park, but up close would reveal a complexity of textures and nuances that creates a strong aesthetic identity. The result is even more alluring at night, when the Guggenheim can be seen only through its fissures, while the library, illuminated from its interior, is transformed into a sort of lighthouse that dominates the entire urban park of Abandoibarra.

The library project is part of a development program undertaken by the city of Bilbao to create areas dedicated to culture for use by the academic community, researchers, companies and institutions, at local and international levels. Continuity with the old part of the University of Deusto is maintained by a wooden footbridge that allows pedestrians to cross the Nervion and reach the new building, which maintains its own independent identity in the urban park on the left bank of the river estuary.

The library is part of the renewal scheme promoted by the university and is designed to offer a new space for study and research where innovations in study methods combine with architectural flexibility and quality.

Inside, the building has 10 floors, five of which are underground. The above-ground floors let in an abundance of natural light and provide beautiful views of the city. The four reading rooms, which can seat a total of 1,000 people, look onto the Guggenheim Museum and the river. The rooms are free from all visual obstacles and equipped with the latest information and digital technology for text and image processing. The inner area, simple and elegant, includes plenty of space between the structural and functional elements, providing an optimal environment for study and research. The rooms also house the public collection, while the volumes kept in the various storerooms are protected by the south façade (which has no windows) and by the underground rooms.

The building also houses the multimedia area, the media library, seminar rooms, individual booths for researchers, areas dedicated to group study, multipurpose rooms, recreation areas and a coffee shop. Each area is designed to meet a wide range of user needs and to allow the building to be used to its full extent throughout the day, while maintaining architectural continuity and providing a contemporary, aesthetically pleasing environment.



SURFACE One

Most recent works by Rafael Moneo

- | | |
|--|---|
| Museum of Modern Art
Houston, USA | Redefinition of the souk area
Beirut, Lebanon (under construction) |
| Museum of Fine Arts
Houston, USA | Museum of Modern Art
Stockholm, Sweden |
| Archive of Navarra
Pamplona, Spain | Science Museum
Valladolid, Spain |
| Cathedral of Our Lady
of the Angels, Los Angeles, USA | Chase Museum
Providence, USA |



MONDO IDEA! AN ARTISTIC INTERPRETATION OF MONDO FLOORING SYSTEM BY



(ALDO CIBIC)

**AIA
June 10 - 12
Miami, Florida**

TRACK & FIELD



IAAF World Indoor Championships

MARCH 12TH - 14TH DOHA, QATAR

The Olympic Games in Beijing, the IAAF World Indoor Championships in Valencia in 2008, the European Indoor Championships in Turin, and now, Mondo has been selected as Official Supplier of the main and warm up tracks, and the equipment for the upcoming IAAF World Indoor Championships. The athletics track at the Aspire Dome is a hydraulic banked track which guarantees an incredibly even surface, outstanding performance for all lanes and proper slopes on bends, while the Super X Performance surface ensures maximum elasticity for superb sports performance. In addition, Mondo provided race equipment (including hurdles), electronic and throwing equipment, and a Mondoturf system for the soccer field inside the stadium.



Carifta Games

APRIL 1ST - 5TH GEORGETOWN, GRAND CAYMAN

The Carifta Games are the most important event of its kind in the Caribbean. It will be held at the Truman Bodden Sport Complex on a Super X Performance track.

Mondo has been the supplier of athletic tracks for the following Carifta Games: 2009 St. Lucia • 2008 St. Kitts & Nevis • 2007 Turks & Caicos • 2006 Guadeloupe • 2005 Tobago, BWI • 2003 Trinidad & Tobago • 2002 Bahamas

By investing 6 percent of its revenue into research and development, Mondo is always moving forward in developing new materials and products.

This core value, which made Mondo the leader in rubber surfaces, is strongly represented in an exciting new series of images created by illustrator James Carey of London.

The images also clearly capture the essence of Mondo's relationship with athletes and their environments.

MONDO



OUR PRESENCE

SPORT EVENTS

IX South American Games

March 19 - 30 • Medellín, Colombia

Winthrop Invitational

March 25 - 27 • Winthrop University

Carifta Games

April 1 - 5 • Grand Cayman

Florida Relays

April 2 - 3 • University of Florida

Sun Angel Invitational

April 9 - 10 • Arizona State University

Drake Relays

April 22 - 24 • Drake University

MEAC Conference

May 6 - 8 • North Carolina A & T

Atlantic Sun Outdoor Championships

May 14 - 15 • University of North Florida

SEC Championships

May 13 - 16 • University of Tennessee

NCAA D-II Championships

May 27 - 29 • Johnson C Smith University

NCAA D-III Championships

May 27 - 29 • Baldwin-Wallace College

NCAA D-I East Regional Championships

May 30 - 31 • North Carolina A&T

Adidas Grand Prix - IAAF

June 12 • Icahn Stadium

High School Championships

June 17 - 19 • North Carolina A & T

USATF Championships

June 23 - 27 • Drake University

USATF Junior National Championships

June 23 - 27 • Drake University

TRADE SHOWS

NSBA

April 10 - 13

Chicago, IL

NIRSA

April 20 - 21

Anaheim, CA

CSCCA

May 5 - 7

Orlando, FL

AIA

June 10 - 12

Miami, FL

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