'International Physical Education and Sport University', part of a

Floating - Transportable Array of Sport Facilities to Rent, for Mega-Sport Events

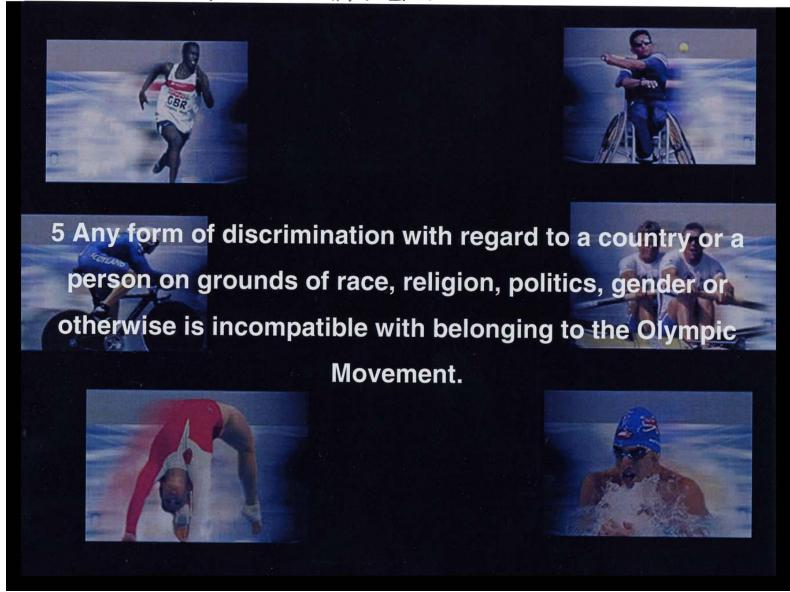
By Michael Burt, Architect, D.Sc. Prof. Emeritus Technion, I.I.T, Israel

Sport industry and 'mass entertainment and recreation through sport' enter the globalization era.

The revival of the Olympic legacy and spirit by Coubertin's vision, in the end of the 19-th century, started a chain of Olympic and other mega-sport world events, generating in its wake a proliferating cultural activity on a national and international level, with an ever-increasing impact on human-cultural-educational and economic-political sphere, the scale and magnitude of which cannot be exaggerated.

The Uniqueness of the Olympic legacy is in its message of unity and shared destiny of the human race; with moral – ethical commitment to friendship, peace and total rejection of prejudice and discrimination.

FROM THE OLYMPIC CHARTER:



On a national and international level

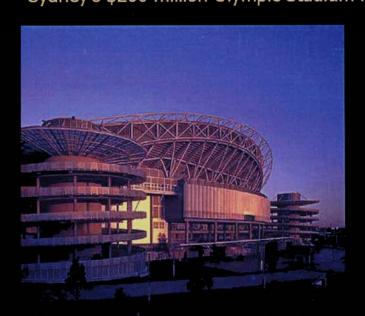
The harsh reality is that most of world's nations (about 80%+!) are incapable of hosting a major sport event, mostly on economical grounds, because of the inhibitive costs of sport facilities, required infrastructures and event operation expenditures.

ECONOMIC FACTS

	GAMES	The estimated gross cost (before taking account of any income) at the time of the bid	Additional constructions costs	Overall up-to-date
Barcelona'92	Barcelona 1992	US\$ 1.1 milliard		US\$ 1.4 milliard
Atlanta 1996	Atlanta 1996	US\$ 1.5 milliard		
Sydney 2000	Sydney 2000	US\$ 3.27 milliard	US\$ 2.2 milliard	US\$ 6 milliard
ATHENS 2004	Athens 2004	US\$ 8.7 milliard		US\$ 14.6 milliard

AFTER THE PARTY, SYDNEY'S OLYMPIC BLUES

(CNN) -- If you build it they will come. In Sydney, they don't.
Future Olympic city hosts be warned. Despite the stunning sellout success of the 2000 Games,
Sydney's \$200 million Olympic Stadium is shaping up as a white elephant of mammoth proportions.





GHOST TOWN

The problems are not confined to the main stadium. Most days, this sprawling complex resembles little more than a state-of-the art ghost town.

Sydney, like so many host cities before it, is struggling to convert the short-term publicity bonanza of the games into long-term economic benefits.

The suggested central idea-concept is

to realize and construct a modular array of floating, transportable, state of the art Olympic facilities, capable of traversing the oceans, which could be borrowed-rented by the interested hosting nations of mega-sport events, Olympic Games included, for the duration of the event, to be moored in proximity of major port cities and reasonably protected coastal marine environments.

On a personal – individualsocial level

The competitive mega-sport events with activities elevated to a form of art and an expression of the ultimate human achievement and excellence, are open to all races, nationalities and social tracts and provide the shortest track for young men and women to rise to prominence and draw world attention and recognition, once reserved only to god-like epic heroes.

The talented sportsmen are lavishly rewarded and manage to reach the status of national and international social-cultural idols.

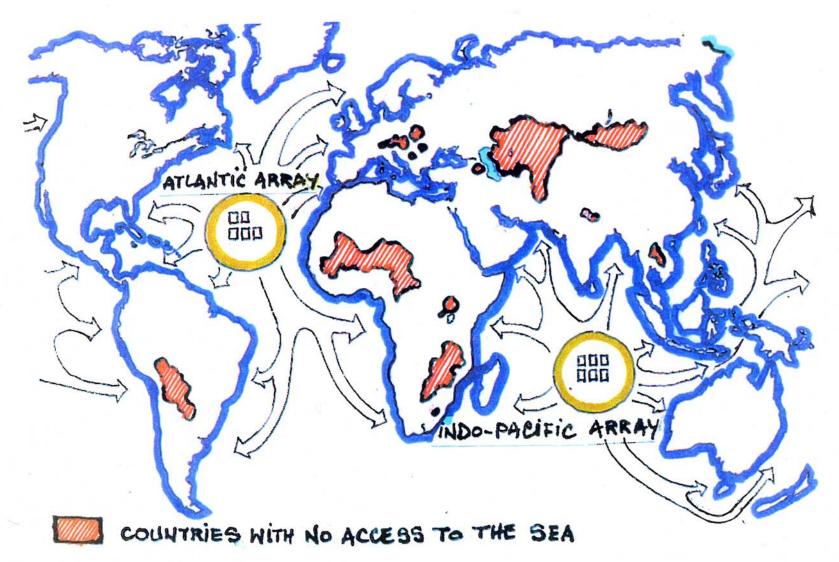
That makes competitive sport activities and physical education at large, an attractive career option, appreciated and desired by ever growing numbers of young people around the globe.

Desiring and yearning to join the ranks of the privileged is unattainable for most of humanity, mostly on economical grounds, lack of supportive social environment and of appropriate educational infrastructures.

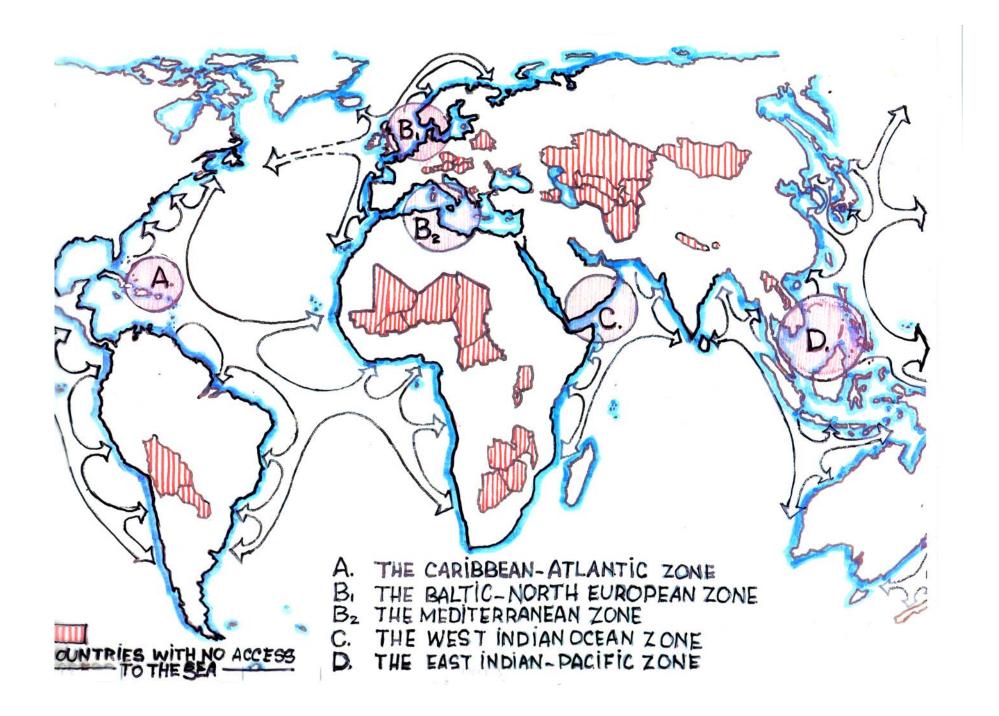
It is a form of discrimination, a breach of the Olympic charter and a stain on the Olympic ethos.

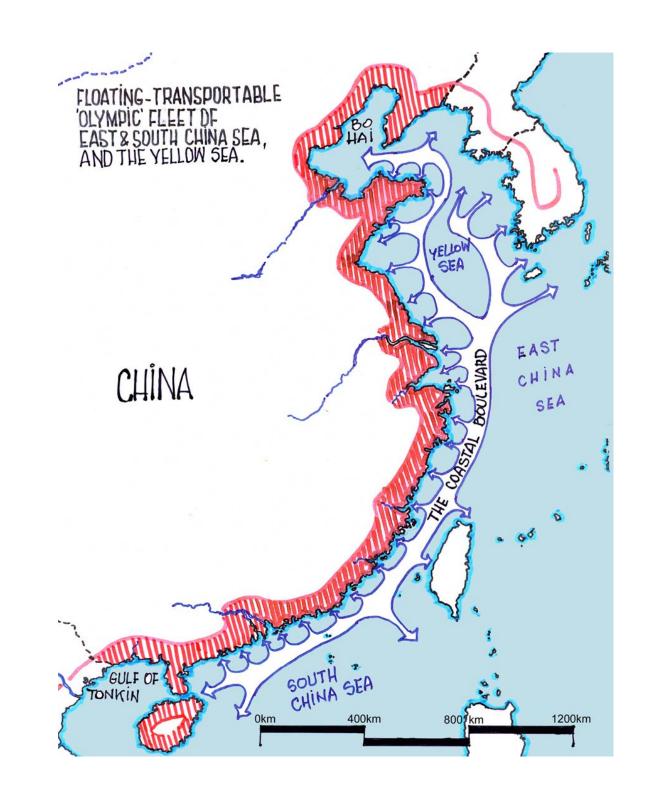
What is urgently required is

an internationally endorsed and supported 'University of Sport', As part of the modular Olympic facilities fleet to provide physical education and training, study and research environment, for the most promising and aspiring sport talents and probable candidates to take charge of sport and physical education in their own countries.

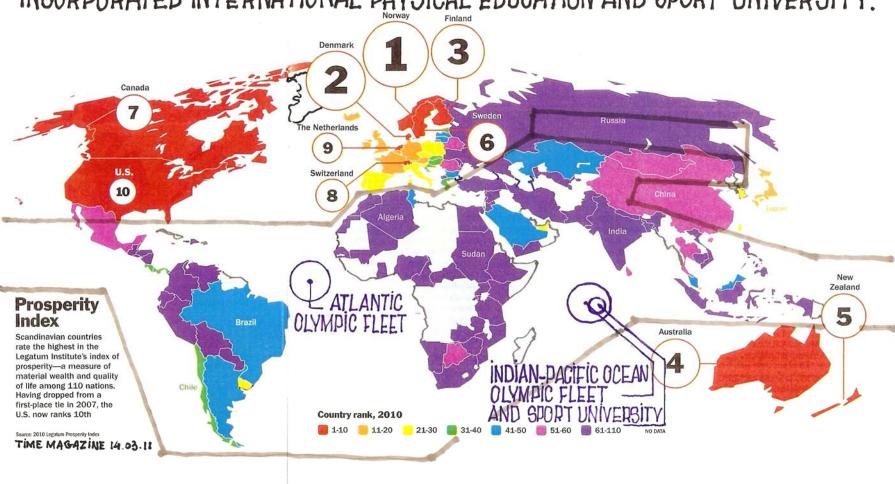


THE ATLANTIC AND THE INDO-PACIFIC OLYMPIC FLEETS





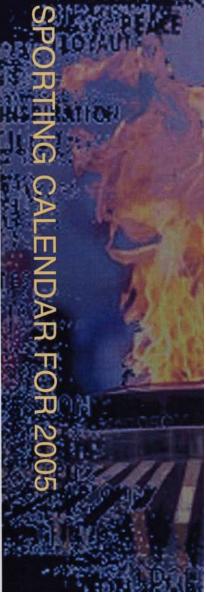
THE DARK-GREY AREA COUNTRIES, MOSTLY UNDER-PRIVILEGED, TO BENEFIT FROM THE SUGGESTED VISION OF THE "FLOATING TRANSPORTABLE OLYMPIC FLEET AND THE INCORPORATED INTERNATIONAL PHYSICAL EDUCATION AND SPORT UNIVERSITY".



The suggested fleet should be realized as an economically viable enterprise, which should generate reasonably sufficient income from its mega-sport (and auxiliary) activities to cover and maintain its operation.

Key contribution is the dramatically increased operational frequency, which is denied in the case of land-based facilities.

	Sport	Number of international/big events* for the year 2005		
es	Archery	6 M(X)		
Ally	Athletics	21		
66. F	Basketball	26		
	Boxing	2		
wiji.	Cycling - indoor	1 one a Al		
	Fencing	3 - EGAL		
	Gymnastics	2		
\ # \ .	Judo	2 %		
	Karate	3		
	Modern pentathlon	8		
	Powerlifting	6		
HVY	Shooting	12		
1 10	Swimming	10		
	Table tennis	6		
7.3	Taekwondo	3		
	Tennis	36		
	Volleyball	17		
	Waterpolo	2		



- The envisaged floating modules might include the following:
- •The Central Stadium, equipped to serve up to 150.000 spectators.
- •Auxiliary Sport Facilities Module, for various branches of sports, water sports included.
- •One or two 'Olympic Village' modules and visitors accommodation; urban modules with all the servicing and infrastructures.
- 'Media studios and laboratories, Communication and Research Center' and Administration module.
- International 'Sport University Campus', with all the required facilities and infrastructures

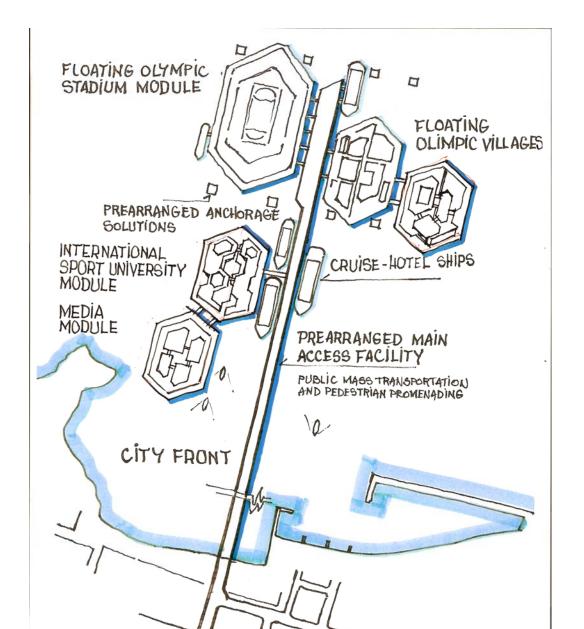
TECHNOLOGY HAS MATURED TREMENDOUSLY SINCE THE CONCEPT OF MEGA-FLOATS WAS FIRST INTRODUCED BY ARMSTRONG IN THE 1920-th.

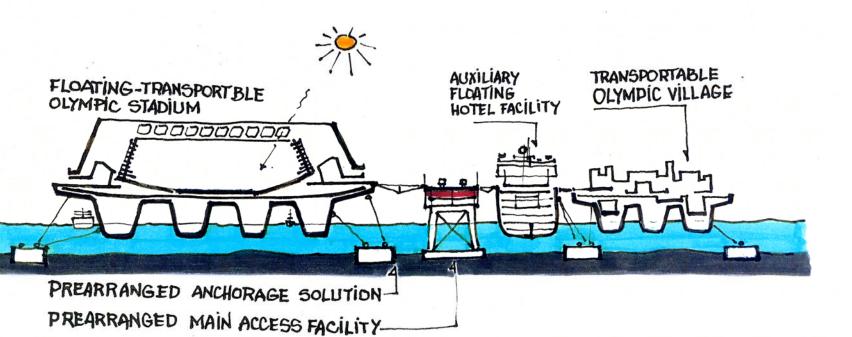
IT IS HIGH TIME TO RECOGNIZE THAT THE MARINE EXPANSES CAN ACCOMMODATE FOR THE TRANSPORTATION OF MAJOR URBAN-SCALE FACILITIES, HITHERTO CONSIDERED TO BE EARTH BOUND, STATIC.

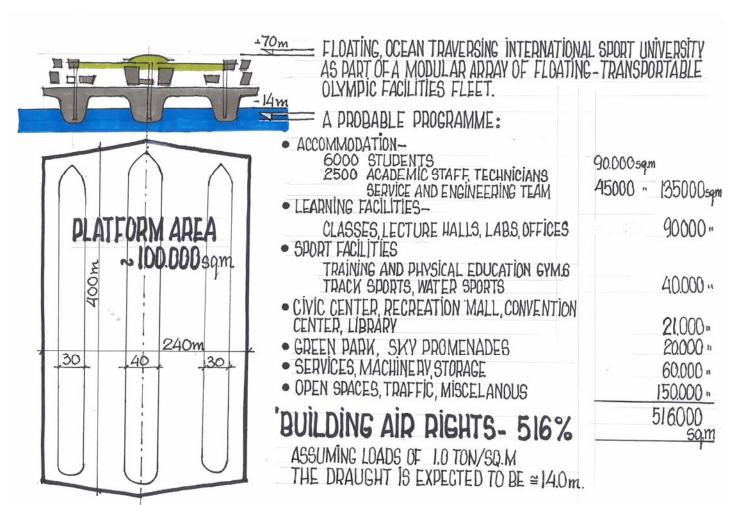
CONCEPTUAL BREAKTHROUGHS ARE PERFORMED EVERY YEAR, WITH MAJOR OCEAN GOING RECREATIONAL FACILITIES AND INFRASTRUCTURE MEGA-VESSELS LEADING THE WAY.

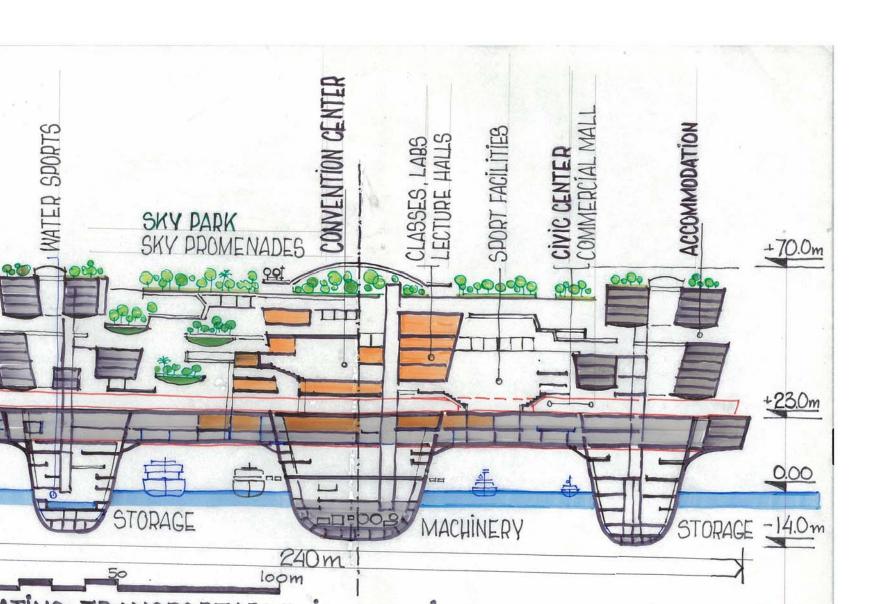
GIVEN TODAY'S TECHNOLOGY IN MARINE ENGINEERING AND SPACE STRUCTURES WE ARE LIMITED ONLY BY OUR IMAGINATION.





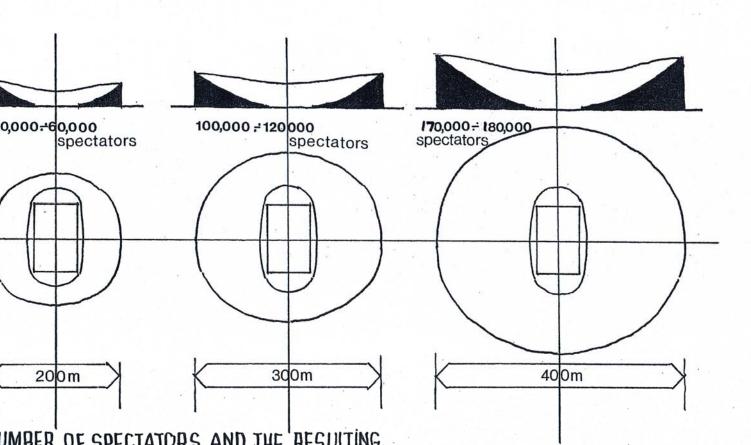


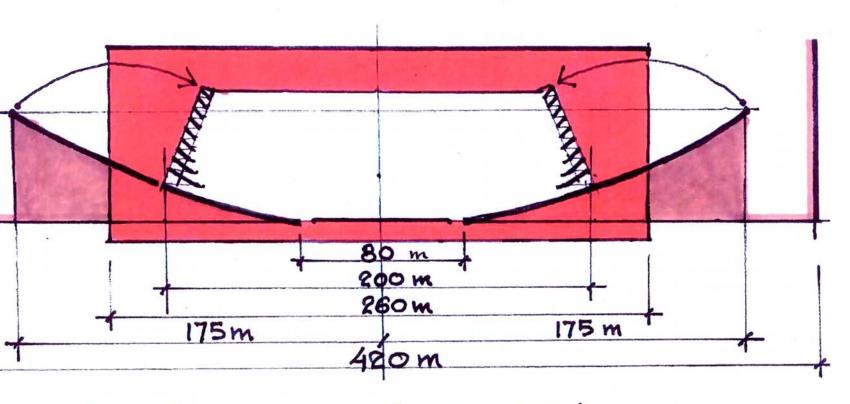




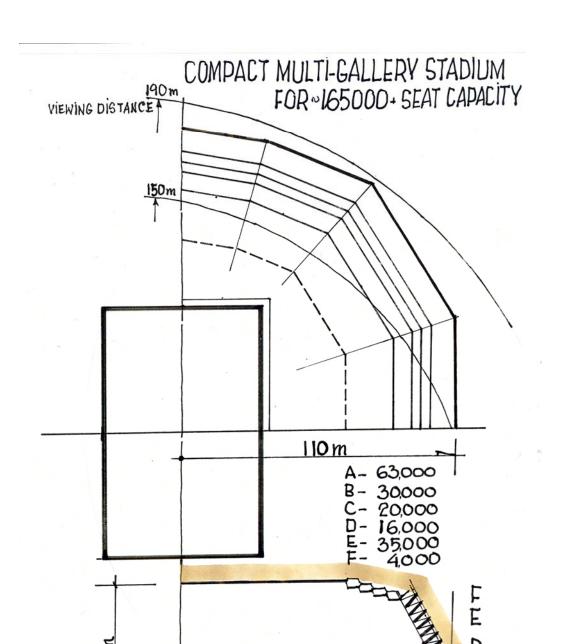
The suggested ocean – going platforms are not just transportation vessels but mostly living and working environments which should be endowed with as much of the characteristics of land based normalcy as possible.

The over-riding design criterion (besides safety and security) of the entire modules array is a far-reaching compactness which implies special attention to morphologically and functionally efficient space utilization.





CAPACITY EQUIVALENCE OF THE MULTI-GALLERY (200m)





CONTROLLED PERMEABILITY TO CLIMATIC PARAMETERS

OPEN PUBLIC SKY-PARK SPACES

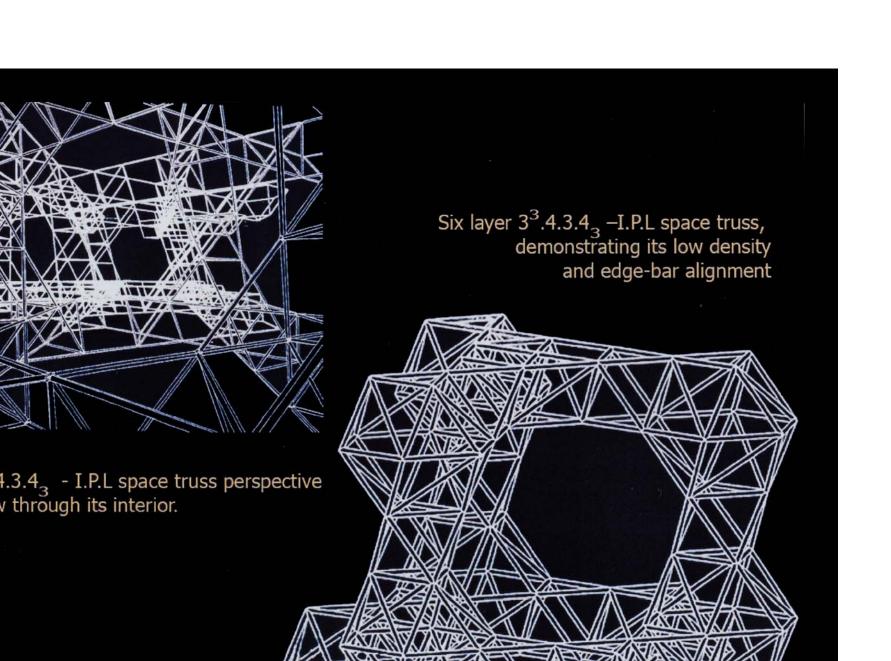
COMPACT MULTI-GALLERY INTERIOR
FOR 150,000 + 180,000 SPECTATORS

EXOSKELETAL STRUCTURE
BOX-LIKE CLOSED IPL TRUSS,
TO PROVIDE FOR LATERAL
STABILITY

MULTI-HULL FLOATATION TRANSPORTATION STRUCTURE

ICEPTUAL FORMULATION OF PRINCIPLES OF THE ATING-TRANSPORTABLE OLYMPIC STADIUM MODULE

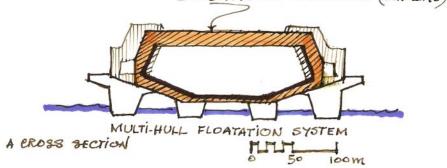
ATE STRUCTURES DERIVED FROM THE OCTET SPACE LATTICE. DOUBLE LAYER-DCTATRUSS SPACE FRAME Den=8 2/22 TRIPLE LAYER - OCTET SPACE FRAME Den=130/22 33.4.3.43-INFINITE POLYHEDRA LATTICE (-I.P.L) SPACE STRUCTURE H=5h Den= 8 a/a2 • SPATIAL DENSITY OF 3.4.3.4, I.P.L LATTICE - D= 1.6%



I.P.L Space Structures are multi-layered, low density, bar and joint trusses, the geometry of which is derived from 'Infinite Hyperbolic Sponge Polyhedra'. Some of the I.P.L. geometries, as physical structures, are statically stable while maintaining a very low bar and joint density over their volume. These structures are highly ordered and if used as large span mega-plates. I.P.L space trusses can span as much as 200÷300m, with bar-elements of 4÷5m in length.

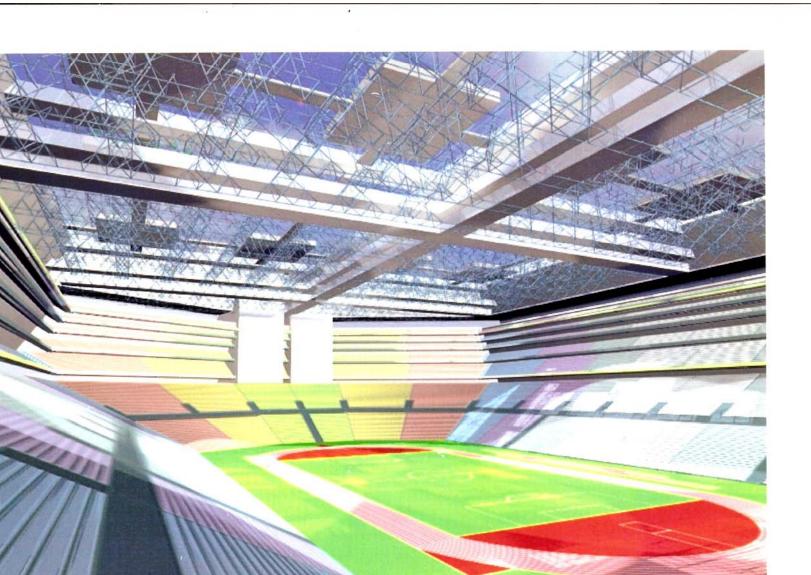


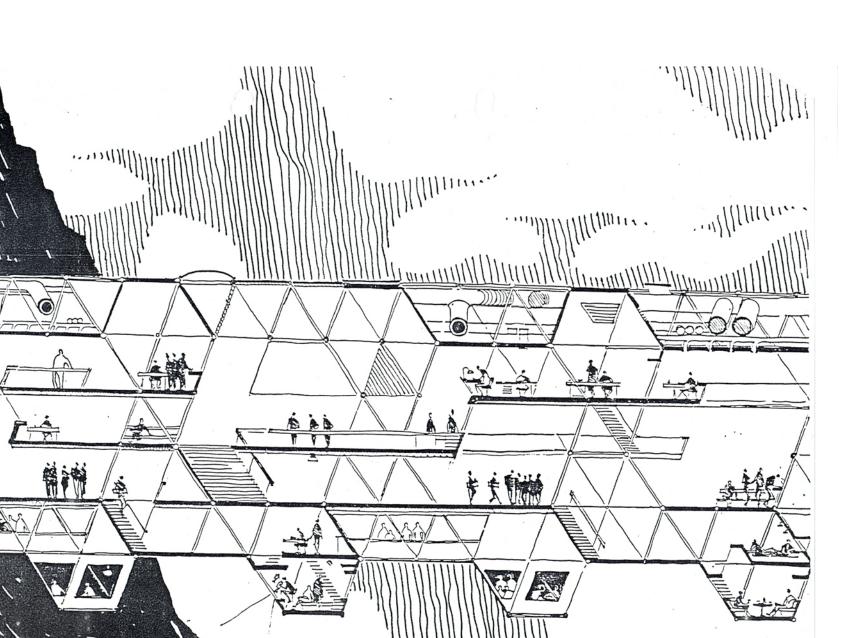


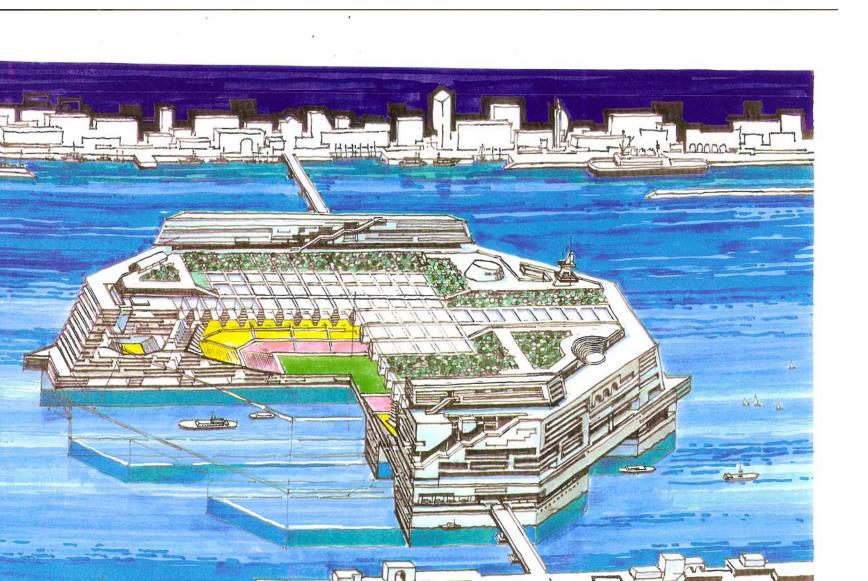


A COMPACT OLYMPIC STADIUM









IN CONCLUSION

The idea of a floating array of 'Olympic facilities' (including the Olympic Stadium), capable of traversing the oceans, is not just a visionary dream but a stark necessity, which could be realized and made practical.

It can be sustained by contemporary technology, various critical aspects of which were already successfully tested.

The establishment of an International Sport University campus (with the UNESCO sponsorship or otherwise) is an opportunity to redress the ethical-moral equity issue between the developed and the underdeveloped countries and humanity by helping the under-privileged to join and take their rightful place in the evolving global sport culture and to foster cultural and racial interrelations.