World Hydrogen Energy Conference
WHEC 2018

Rio de Janeiro
Brazil
To
Dr. T. Nejat Veziroglu
President
International Association for Hydrogen Energy - IAHE

Ref.: 22nd World Hydrogen Energy Conference – WHEC 2018

Dear Sir,

It is with great pleasure that we greet you on behalf of the Brazilian scientific community on Hydrogen Energy, upon submitting our bid to the IAHE with the objective to host the 22nd World Hydrogen Energy Conference – WHEC 2018.

In the last ten years the Brazilian Government has directed an important effort on stimulating the development of the hydrogen energy scientific and technological sectors through the strategic planning, political and financial supports to universities, research centers and companies throughout the country. This included an active Brazilian participation within the International Partnership for Hydrogen and Fuel Cells in the Economy – IPHE, the establishment of a Brazilian Road Map for Hydrogen Energy, coordinated by the Ministry of Mines and Energy, as well as the recovery of laboratorial infrastructure and dedicated financial support to a host of research groups through the Science, Technology and Innovation Program for the Hydrogen Economy as a formal action of the Ministry of Science Technology and Innovation. As a function of that national networks were created and animated on areas such as Solid Oxide Fuel Cells, PEM Fuel Cells, Hydrogen Production and Systems and Devices. Also a boom of Ph.D thesis, patents and scientific articles on these subjects is been observed in the last years. New companies have been created in the area and important Brazilian enterprises of the conventional sector have been increasingly investing on hydrogen and fuel cells. Considering these facts and the outstanding participation of renewables in the Brazilian energy matrix, more than 47% nowadays, very interesting prospects can be made for the Brazilian activity on hydrogen and fuel cells in 2018. Hosting the important World Hydrogen Energy Conference will certainly push forward these activities in Brazil and neighbor South American countries.

Rio de Janeiro is indeed inherently fitted to host import national and international events due to its overwhelming natural beauty, its regional professional reputation on science & technology and its already well-established and progressively growing infrastructure, stemming from the fact that it will host main international events in the coming years. This makes the choice of Rio de Janeiro to host the WHEC 2018 a wise one. On the following pages you will find the necessary and significant
support to the proposition herein made, as well as a detailed description of the Rio de Janeiro event infrastructure.

Finally, we are honored to submit this bid to host the WHEC 2018 in Rio de Janeiro. Hosting the WHEC 2018 in Brazil will definitely make an enormous contribution to strengthen and further develop the hydrogen energy and fuel cells area in our country.

We look forward to our chance to host the WHEC 2018.

Sincerely yours,

[Signature]

Paulo Emílio Valadão de Miranda
Coordinator of the WHEC 2018 Committee.
Dr. T. NEJAT VEZIROGLU  
President, International Association for Hydrogen Energy – IAHE

Dear Mr. President,

The Ministry of Science, Technology and Innovation strongly supports Brazil’s candidacy to host the 22nd World Hydrogen Energy Conference (WHCE 2018) in Rio de Janeiro.

The World Hydrogen Energy Conference is the main congress organized by IAHE and it will represent an opportunity for Brazil to show its scientific and technological capacity in this area, especially if we consider the huge participation of renewable energy on Brazilian energy portfolio.

Thereby, I reaffirm MCTI’s endorsement to host this Conference and I put this Ministry at your disposal to contribute to anything needed for a successful event.

I urge you to give this candidacy every consideration, hoping that we can establish fruitful partnerships in the future.

Sincerely,

MARCO ANTONIO RAUPP  
Ministry of Science, Technology and Innovation
To
Dr. T. Nejat Veziroglu
President
International Association for Hydrogen Energy

Re: World Hydrogen Energy Conference – WHEC 2018

Dear Sir,

It is with great pleasure that the City of Rio de Janeiro extends its official invitation to the World Hydrogen Energy Conference – WHEC 2018.

We look forward to being able to give you and your members a warm welcome in 2018 and to making sure you receive the genuine "carioca" hospitality.

Rio is definitely a professional choice to host important international events such as yours, since it provides diverse venues and entertainment options plus a very efficient and comfortable hotel accommodations of varied chains & categories. The city is also going through a redevelopment of the urban infrastructure of the entire harbor area.

We are implementing a new intermodal system linking in the express ways (BRTS), trains, ferry and subway, which will increase the transportation capacity from 16% to 50% within the city.

Rio is suited to all tastes, offering something to everyone, allowing them to become acquainted with the many sides and charms of the city.

In addition, the population of Rio is naturally friendly and warmhearted, and our cultural traditions, cuisine and nightlife are not only good but special.

Speaking from experience, I feel sure that you could not choose a better venue for your event.

I look forward to meeting you in 2018.

Welcome to Rio!

Eduardo Paes
Mayor
City of Rio de Janeiro
Dr. T. Nejat Veziroglu
President
International Association for Hydrogen Energy – IAHE
5794 SW 40 St. #303
Miami, FL 33155, USA
info@iahe.org

Dear Mr. President,

Taking into account the relevance of renewable energy for the Brazilian energy grid, I would like to express how pleased The Brazilian Development Bank (BNDES) is with the possibility of Brazil hosting the 22nd World Conference on Hydrogen Energy (WHCE 2018) in the city of Rio de Janeiro.

Over the past years, the BNDES has supported several initiatives aimed at promoting the debate with regards to innovation and environmentally friendly technologies, including those related to the renewable energy sector.

Yours Sincerely,

João Carlos Ferraz
Vice President
Rio de Janeiro, May 2nd, 2012

To
Dr. T. Nejat Veziroglu
President
International Association for Hydrogen Energy – IAHE

Ref.: 22 World Hydrogen Energy Conference – WHEC 2018

Mr. President,

On behalf of the Brazilian Agency for Innovation (FINEP) and in my own name I would like to stress the support to Brazil candidacy to host the 22 World Hydrogen Energy Conference (WHEC 2018) in Rio de Janeiro.

Brazil is an important country on renewables and cleaner fuels and the great willingness to invest in the area. Moreover, there is an increase in the number, as well as in power of projects related to hydrogen and fuel cells, which will be intensified in the coming years.

Rio de Janeiro is really a wonderful city and it presents an adequate atmosphere, infrastructure and all requirements for the WHCE 2018 to be a great success.

Thereby, I reaffirm FINEP's endorsement to host this Conference in Rio de Janeiro in 2018 and I hope that we can establish fruitful partnership in the future.

Sincerely,

Glauco Arabi
President
Belo Horizonte, March, 20th, 2012

To
Dr. T. Nejat Veziroglu
President International Association for Hydrogen Energy IAHE
Ref.: 22nd World Hydrogen Energy Conference WHEC 2018

TO WHOM IT MAY CONCERN

DECLARATION

We are Associate Professors of the Department of Chemistry at Federal University of Minas Gerais. Since the 90 our research group has worked in the field of electrochemistry studies involving solid oxide fuel cells. In 2004, the group signed a research agreement with the Energy Company of State of Minas Gerais-CEMIG and Laboratory of Materials and Fuel Cells (LaMPaC). This project has permitted to built and supply a new laboratory with the modern equipments and since then the Energy Team (ceramic materials for fuel cells) has been growing and working with other funding sources.

Hosting the WHEC 2018 in Rio de Janeiro will be an honor and a very unique occasion to strongly improve the fuel cell and hydrogen energy in Brazil.

Antônio Flávio de Carvalho Alcântara
Chemistry Department Director

Rosana Zacarias Domingues
Associate Professors

Universidade Federal de Minas Gerais - Departamento de Química
Avenida Antonio Calos 6627 CP 901 Belo Horizonte, Minas Gerais –Brazil.
Campanas, April, 16th, 2012.

To

Dr. T. Nejat Veziroglu
President
International Association for Hydrogen Energy - IAHE

Ref.: 22nd World Hydrogen Energy Conference - WHEC 2018

Dear Sir

It is with great pleasure that I write this letter in support of the Brazilian candidacy to the WHEC 2018. CENEH has been giving support to all activities related to the development of hydrogen for energy and fuel cells in Brazil, having contributed to the elaboration of the Program of Science, Technology and Innovation for the Hydrogen Economy (Ministry of Science and Technology), the Brazilian Roadmap for Hydrogen Energy (Ministry of Mines and Energy), and also IPHE. CENEH in collaboration with the Hydrogen Laboratory at UNICAMP is the organizer of the International Workshop on Hydrogen and Fuel Cells - WICaC, which has been occurring in even years since 2002. A significant number of Brazilian and foreign speakers have been invited to discuss their ideas and present the state of the art of hydrogen technologies, and the advances and challenges related to the use of hydrogen for energy uses in Brazil and worldwide. It is with great enthusiasm, then, that we give our support to the Brazil’s bid to host the WHEC 2018.

Nowadays 85% of the Brazilian electricity comes from renewable sources of energy, mainly hydropower. Wind potential at 100 m (350 GW) surpassed hydropower potential (261 GW), and wind energy is expected to increase from 1.07 GW in 2010 to 22 GW by 2020. Recently the federal government approved incentives for solar energy, and in the next three years 17 companies will install photovoltaic plants for research and demonstration purposes, from 0.5 to 3 MW, totaling 24.6 MW. In the transport sector bioethanol contributes with 25% and natural gas with 3% of the total fuel consumption of the country. These figures demonstrate the country’s vocation for renewables and cleaner fuels, and the great willingness to invest in the area. Similarly, there is an increase in the number, as well as in power, of projects related to hydrogen and fuel cells, which will be intensified in the coming years.

We are sure that universities, research centers, organizations and companies operating in the country will give all support to the conference and they will take the opportunity to deepen relationships with their foreign counterparts, seeking for complementariness in projects of research, development and innovation, as well as in business opportunities.

The city of Rio de Janeiro is really wonderful, it has an adequate infrastructure for the event and the residents always welcome all the visitors very warmly. The city is one of the Brazilian
connection hubs, and other cities and countries can be easily accessed from there. Therefore, we are sure that the Brazilian candidacy to WHEC 2018 meets all the requirements and that the event will be a great success.

Sincerely yours,

[Signature]
Dr. Newton Pimenta
Executive Secretary
Brazilian Reference Center for Hydrogen Energy - CENEH

Researcher
Universidade Estadual de Campinas - UNICAMP
Instituto de Física Gleb Wataghin
Hydrogen Laboratory

nevesjr@ifi.unicamp.br
Tel: +55 (19) 3521-2073 / 3521-2088
Ofício Nº 067/2012 - IQ

Salvador, May 03, 2012

To
Dr. Nejat Veziroglu
President
International Association for Hydrogen Energy-IAHR

Ref.: 22nd World Hydrogen Energy Conference

Dear Sir:

As a member of the network in Solid Oxide Fuel Cell in Brazil, our institution strongly encourages and supports the Brazil’s candidacy to host the 22nd World Hydrogen Energy Conference (WHCE 2018) in Rio de Janeiro.

We believe that such important event will contribute significantly to strength and further develop the hydrogen energy and fuel cells area in our country. It will be a great opportunity for our scientific community to change experiences with renowned scientists and also to discuss the works developed in Brazil.

This event is in line with several efforts of Brazilian Government to encourage the development of scientific and technological researches in universities, research centers and companies in the field of hydrogen energy and fuel cells. In our university, these efforts have motivated the students and researchers to carry out new studies in this area, as well as to improve the quality of the research works.

For these reasons, we look forward you consider our proposal to host the WHEC 2018.

With best regards,

Maria do Lourdes-Botelho Trino
Diretora
Instituto de Química

Maria de Carne Rangel Santos Varela
Coordenadora dos Cursos de Pós-graduação em Química

Rua Barão de Geremoabo, 147 - Campus Universitário de Ondina
40170-290 Salvador, BA - Tel: (071) 3263-8802 Fax: (071) 3237-4117
Natal, March 5th, 2012.

To
Dr. T. Nejat Veziroglu
International Association for Hydrogen Energy-IAHE
Ref.: 22nd World Hydrogen Energy Conference-WHEC 2018

Dear Sir,

It is with great satisfaction that UFRN (Universidade Federal do Rio Grande do Norte) supports COPPE on behalf of the Brazilian scientific community on Hydrogen Energy, in its proposal to the IAHE with the objective of hosting the 22nd World Conference on Hydrogen Energy WHEC-2018.

In recent years, scientists and the Government have undertaken efforts with a view to the development of this research field. UFRN holds several groups in the area of renewable energy and it is in the area of hydrogen production that our researchers have developed their research. The production of components for fuel cells and hydrogen production by reforming of ethanol is our strong point, contributing to the sustainable environment and stimulating the search for new energy sources, facing the future depletion of nonrenewable resources.

Today, UFRN holds some students in Europe and the United States, developing PhD theses in the area of hydrogen production, so we’re really interested that this event could be held in Rio de Janeiro, Brazil, as a way to show what is being done in our country, in several universities, with support of the Brazilian Science and Technology Ministry-MCT, in relation to the theme of the 22nd World Hydrogen Energy Conference, WHEC-2018.

Finally, we hope to contribute to the effective development of this area in our country and the world.

We look forward to our chance of hosting the WHEC 2018.

Sincerely yours,

Prof. Dulce Maria de Araújo Melo
Fuel Cell Group Coordination

Prof. Ángela Maria Paiva Cruz
President of UFRN
To  
Dr. T. Nejat Veziroglu  
President, International Association for Hydrogen Energy (IAHE)

Dear Mr. President

On behalf of our research group in hydrogen-related materials and systems at the Federal University of Santa Catarina (UFSC), I would like to express the support for the Brazilian candidature to host the 22nd World Hydrogen Energy Conference (WHEC 2018) in Rio de Janeiro.

We therefore would be very honored if Brazil is awarded the opportunity to host this important event, the management of which will be in good hands with Prof. Paulo Emílio Valadão de Miranda, and his Laboratory of Hydrogen, at the Federal University of Rio de Janeiro (UFRJ).

We give you our best recommendation and can confidently ensure you that it will undoubtedly be a well-organized and successful event.

Yours sincerely,

[Signature]

Prof. Dr. Dachamir Hotza  
Graduate Program in Materials Science and Engineering (PGMAT)  
Federal University of Santa Catarina (UFSC)
To e-mail info@iahe.org and by air mail

Dr T. Nejat Veziroglu
President
International Association for Hydrogen Energy (IAHE)
5794 SW 40 St. #303
Miami, FL 33155, USA

ITAIPU’s institutional support to the Brazilian proposal to host the 22nd World Hydrogen Energy Conference (22 WHEC) in Rio de Janeiro.

Dear Dr Verizoglu:

This is to express ITAIPU Binacional’s institutional support to the Brazilian proposal to host the 22nd World Hydrogen Energy Conference (22 WHEC) in Rio de Janeiro in 2018.

As the second largest city of Brazil, boasting over six million people within the city proper, and the most visited city in the southern hemisphere, Rio de Janeiro has been home to outstanding international meetings such as Rio-92 and will be the venue for Rio+20 in June 2012, as well as the 2016 Summer Olympics. Rio’s Maracanã Stadium will host the final match for 2014 FIFA World Cup, and Rio will also host World Youth Day in 2013.

Therefore we are sure Rio is perfectly equipped in terms of infrastructure, accommodation, transport, cultural activities and tourist attractions to host an event of such magnitude as the 22 WHEC.

Hosting this Conference in Rio will be a great opportunity for Brazil to showcase its technological and scientific capacities concerning hydrogen energy research and development, especially when considering the significant contribution of renewables to the Brazilian energy matrix.

Hoping that Rio will be chosen to be the venue for this prestigious conference, we remain

Yours sincerely,

Jorge Miguel Samek
Director-General, Brazil, and
Interim Executive Technical Director
To
Dr. T. Nejat Veziroglu
President
International Association for Hydrogen Energy – IAHE

Assunto: World Hydrogen Energy Conference – WHEC 2018

Dear Sir,

Eletrobras Furnas has been aware of the possibility that the 22nd World Hydrogen Energy Conference – WHEC 2018 – will take place in Rio de Janeiro.

Furnas is a regulated utility company that generates and transmits electric energy in Brazil. Furnas is a subsidiary of Eletrobras, a listed company controlled by the Brazilian Government that operates in power generation, transmission and distribution in Brazil, being the largest electricity company in Latin America.

The company’s headquarter is in Rio de Janeiro and it is also present in other Brazilian states, such as Minas Gerais, Goiás, Mato Grosso, Espírito Santo, Federal District, Tocantins, Paraná, Rio Grande do Sul, Santa Catarina, Rondônia, São Paulo and Rio Grande do Norte.

Furnas is responsible for the generation of 10% of the total electric energy consumed in the country. It possesses an industrial complex composed of 15 hydroelectric and two thermoelectric power plants, as well as 20,000 km of transmission lines and 52 substations. The company guarantees the electric energy supply to an area where 63% of the Brazilian homes are situated, corresponding to 81% of the gross national product. An expansion plan is being implemented, which will increase its installed capacity by 50% to 16.5 GW.

Furnas has been following the development of worldwide activities on the area of hydrogen energy as a future environmental friendly option and is honored to support Rio de Janeiro as a candidate city to gather the Brazilian industrial, technical and scientific energy-related communities to hold the 22nd World Hydrogen Energy Conference in 2018.

Your Sincerely,

Flavio Decat de Moura
Director-President
Dear Mr.
Doctor T. NEJAT VEZIROGLU
President of International Association for Hydrogen Energy
5794 SW 40St. #303
Miami, FL 33155
USA

Dear Dr. T. Nejat Veziroglu,

First I want to express my respect and congratulation. The object of this letter is to talk about the 22nd World Hydrogen Energy Conference, which will take place on 2018.

A lot of countries had the privilege of to be the sponsor of the same event before, but the Brazil never. It would be extremely important to development of Hydrogen Technology diffusion, whether at that time, we receive the indication to have the responsibility of the reception of all people which have the interest at Hydrogen Energy at the 22nd World Hydrogen Energy Conference.

The Institution in Brazil with the capacity to this obligation and which has the expertise at this subject would be the COPPE – Instituto Alberto Luiz Coimbra of Universidade Federal do Rio de Janeiro in Rio de Janeiro city. The COPPE is one of the main institutions of technology in Brazil, and their representatives have the significant contributions to incentive the use of the Hydrogen Energy by the publication of many papers.

I want thank for your attention of this solicitude and I hope that this answer be considered.

Yours Sincerely

Wilson Jorge Montalvão
Assistant to the President
Of – 038/DIR/CETEM

Rio de Janeiro, 04 de abril de 2012.

Mr. T. Nejat Veziroglu
PRESIDENT IAHE

Dear Professor

1. I must tell that we are more than pleased having the opportunity to express our total support to COPPE/UFRJ, as per regarding to bring to Rio de Janeiro the 22th WHEC 2018.

2. Please be sure that our institution strongly encourage and recommend COPPE/UFRJ to go further on this subject and that will be able to give aid whenever be necessary.

Best regards

RONALDO LUIZ C. DS SANTOS
Deputy Director
CETEM – Centre for Mineral Technology
MCTI – Ministry of Science, Technology and Innovation
Dr. T. Nejat Veziroglu,
President, International Association for Hydrogen Energy - IAHE

Dear Mr. President,

The OXITENO group strongly supports the candidacy of Brazil to host the 22nd World Hydrogen Energy Conference - WHCE - in 2018 in Rio de Janeiro.

The World Hydrogen Energy Conference is the main congress organized by IAHE and it will represent an opportunity for Brazil to show its scientific and technological capacity in this area, especially if we consider the huge participation of renewable energy on Brazilian energy portfolio.

Giving the growing importance of hydrogen and fuel cell technology, our group is paying special attention in order to keep abreast of new developments made in this field, through numerous projects and partnerships with Brazilian universities.

We think that organizing this congress in Rio de Janeiro is a good choice given the importance the exceptionally large amount of high level competence in hydrogen and fuel cell technology existing in Brazil.

We hope that the IAHE delegates view the Brazilian bid in a sympathetic way and waiting for a successful event.

Sincerely,

Flávio do Couto Bezerra Cavalcanti
Director
Dear Dr. Nejat Veziroglu,

IBG – Industria Brasileira de Gases Ltda. is very pleased to confirm the support for the candidacy of Rio de Janeiro city to host the 22nd World Hydrogen Energy Conference - WHEC 2018.

Thirteen years ago IBG decided to open a branch in Rio de Janeiro, in view of the business potential in the medical and industrial gases market, in which IBG produces and sells – and that is very relevant. In addition, this wonderful city has an excellent infrastructure to welcome foreigners from all over the world, offers a wide chain of hotels, industrial and business complexes and an outstanding technological center, parallel to the natural beauty, pleasant temperature and excellent cuisine.

Certainly an event of this category hosted in Brazil can project the green fuel to the South American and worldwide consumer market, as well as increase the businesses towards a sustainable production.

Besides the consumer market, Brazil has a great productive availability, strong investment in researches of green and sustainable technology, and IBG supports the idea and mobilizes together with the several organs for the 22nd World Hydrogen Energy Conference - WHEC 2018 can be held in our country.

Yours sincerely,

Newton de Oliveira
Presidente
IBG - Indústria Brasileira de Gases Ltda

IBG – Indústria Brasileira de Gases Ltda.
Av. Antonieta Piva Barranqueiros, 355 – Distrito Industrial – CEP 13212-000 – Jundiaí – SP
Tel. +55 (11) 2136-8534 - Fax: +55 (11) 2136-8533
Dear Dr. Veziroglu,

The very idea of bringing WHEC 2018 to Brazil is fascinating!

Electrocell is the largest and most diversified fuel cell manufacturer in Brazil and has actively been involved in almost all activities in relation to fuel cells. We are engaged in PEM cells, testing equipment, lithium and bipolar carbon batteries. Back in 2004 we built a 50kW PEM cell, which is still working.

WHEC 2018 in Rio will help us to keep soot and particulates out of the lungs of 20,000,000 dwellers of São Paulo, it will help to keep our huge lakes and waterways clean of oil and gasoline spills and reduce particulate and fuel emissions from jets. Ethanol and natural gas are available in all filling stations in Brasil and can easily be reformed to produce hydrogen.

For all these problems we have initiatives under way, but WHEC 2018 in Rio de Janeiro would focus public attention on these problems and the solutions available.

For foreign visitors we urge to reserve a few days for sightseeing. The Iguazu falls, the architecture of Brasilia, São Paulo or the Amazon river are worth visiting (but not all in two days!). Rio after the Olympic Games in 2016 should be superb.

Welcome in Brasil.

Kind regards,

Volkmart Ett
Electrocell Ind. Com. Ltda.
OF Nº 13/2012/PRESI

Brasília, January 30th, 2012.

Dr. T. Nejat Veziroglu
President
International Association for Hydrogen Energy

Re: World Hydrogen Energy Conference – WHEC 2018

Dear Dr. Veziroglu,

1. The Brazilian Tourist Board - EMBRATUR - institutionally supports the holding of international meetings in our country. We are prepared to make all the necessary arrangements for the quality accomplishment of such important events.

2. Therefore, it was with great pleasure that we learned about the strong possibility of the World Hydrogen Energy Conference – WHEC being held in Brazil in 2018. We are sure that Brazil is the only destination where one can find and combine the excellence of nature, the environment, a peaceful cultural mix and other subjects of your interest.

3. If your Association decides upon Brazil to host its event, you can rely on our official support to guarantee excellent services for your delegates. With consideration to entry formalities for foreign citizens, visas are only required for participants coming from countries adopting the same policy for Brazilian citizens.

4. Should there be any difficulty regarding countries with which we do not maintain diplomatic relations, we will be at your disposal to solve any problem, taking the necessary steps together with the Ministry of Foreign Affairs.

We look forward to seeing you all in the future.

Yours Sincerely,

[Signature]
Flávio Dino
President
Carta nº 00 12012/SETUR


To
Dr. T. Nejat Veziroglu
President
International Association for Hydrogen Energy

Re: World Hydrogen Energy Conference – WHEC 2018

Dear Sir,

The unique setting of Rio de Janeiro makes it different from other megacities in the world. Here, the city unveils itself in all contrasts from the ocean beaches to the rain forest. An endless sequence of varied shaped hills and the huge mass of ocean waters design its coastline.

Centred mostly around the downtown area, Rio de Janeiro’s historical attractions and cultural tradition reveal unexpected treasures from the past, side by side, with contemporary notable buildings hosting a modern lifestyle. Rio has been the political and cultural center of Brazil since the 18th century.

An ideal city for international congresses, conventions and exhibitions, Rio de Janeiro can host a great number of participants in any type of event. There are two modern and well equipped convention centers in the city and hotels with conference services suited to all budgets, either for leisure or business requirements. The hotels’ substructure is being constantly inspected, ensuring that services and technology are continuously improved.

The City Hall supports the feasibility of new constructions of hotel projects (buildings) by offering incentives to achieve the target of 34,000 rooms in the city.

We will be much honored if the City of Rio de Janeiro is selected to host the World Hydrogen Energy Conference – WHEC in 2018.

Welcome to Rio!

Antonio Pedro Figueira de Mello
Secretary of Tourism
City of Rio de Janeiro

To
Dr. T. Nejat Veziroglu
President
International Association for Hydrogen Energy

Re: World Hydrogen Energy Conference – WHEC 2018

Dear Sir,

The Rio Convention & Visitors Bureau was thrilled and honored to learn that you are considering Rio de Janeiro as the host for the World Hydrogen Energy Conference – WHEC 2018.

The cosmopolitan city of Rio is ideal for international meetings. Home to more than 7 million inhabitants, Rio boasts fantastic weather, savory cuisine, hospitable people, sport, entertainment and quality meeting facilities and a modern infrastructure to ensure that your event runs smoothly. With more than 28,000 hotel rooms and ample meeting spaces, including Riocentro – the largest convention center in Latin America – Rio is a logical choice for your event.

Rio de Janeiro has also created a Joint Committee of Tourist Security. The committee is composed of military and civil police forces, fire department, municipal and state tourist offices, Rio Convention & Visitors Bureau, Brazilian Association of Travel Agents, Brazilian Association of Professional Congress Organizer Companies, among others. This joint committee can be summoned to provide special security for congresses, events and groups in the city.

According to the International Congress & Convention Association’s statistics Rio de Janeiro has been ranked among the top 10 or 20 host cities for international meetings in the world and in the 1st position several times in Americas.

Please count on our institutional support and do not hesitate to contact us with any questions or concerns surrounding the event. On behalf of the Rio Convention & Visitors Bureau we welcome you to Rio.

Kind Regards,

Paulo Senise
Executive Director
**Area:** 1,171 Km²

**Population:** 7 million people

**Climate:** mostly sunny, temperature ranging from 27°C / 80°F

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**Infrastructure:**
About 28,000 hotel rooms, facilities and services for meetings and events (professional organizers, travel agencies, audiovisual equipment, airlines, ground transportation, convention centres, venues for social events, etc).

**Cosmopolitan city**
Beautiful nature with the largest urban forest in the world, 2 bays, lagoons, 90 Km of beaches and mountains.

One of the main cultural capitals of Brazil - museums, cultural centres, historical buildings, musical events, movies, theatres.

Great choice of restaurants, shopping malls, tourist sights.
Events and Tourism Infrastructure

- More than 50 experienced and efficient professional congress organizers and trade show companies
- Excellent simultaneous translation and first class equipment companies, freight forwarders and custom brokers.
- More than 500 travel agencies.
- First class telecommunication services:
  1-) International direct dial
  2-) National direct dial
  3-) Cellular Telephone system
  4-) Special services
  5-) Data transmission system (Phonefax, Fax, etc...)
  6-) Cable TV
  7-) 6 private TV channels, 1 state TV channel
  8-) Teleport
- Radiodigital system to connect w/ EMBRATEL's national and int'l headquarters
- Digital multiplex structure
- Radiosatellites and peripheral and antennas park to access INTELSAT and BRASILSAT satellites
- Over 900 restaurants of every specialty.
- 59 consular and commercial representations.
- Near 400 museums, libraries, movies, theater and space for musical and artistic exhibition.

Awards

1. **World Travel Awards**, the British edition of the *Travel Weekly* magazine granted Rio de Janeiro the award of **the best South America's tourist destination** and to Riocentro the best South America’s Convention Center in 2003 and 2004.

2. The city of Rio was chosen **the World Capital of Friendliness in 2001** through a research conducted by the University of Michigan and the University of California.


4. On July 2007 the statue of Christ The Redeemer on the top of Corcovado Mountain, in Rio de Janeiro, was elected one of the New 7 Wonders of the World.
Economy
The main economic sectors in Rio de Janeiro are: oil and gas (Brazilian Capital of Petroleum), telecommunications, thermo-electrical, naval, chemical and metallurgical, pharmaceutical, agricultural, food and beverage, audiovisual (radio, movies and TV), civil construction, information technology and tourism. Rio de Janeiro is the gate for international tourism – from each 10 foreigners, 4 come to Rio. The segment represents 4% of the State Gross Domestic Product.

Security
- Joint Committee of Tourist Security composed of:
  - State Security Secretariat
  - Military Police Force
  - Civil Police Force
  - Municipal Guard
  - Fire Department
  - Municipal Tourist Office
  - State Tourist Office
  - Rio Convention & Visitors Bureau
  - Brazilian Association of Travel Agents
  - Brazilian Assoc. of Professional Congress Organizer Companies
  - Others
- It can be summoned to provide special security for congresses, events and groups in the city.
- In order to improve the security for residents and visitors the Government created the CICC - Integrated Center for Command and Control - a high-tech center working 24 hours a day with officers of eight different government institutions including the Municipal Guard, Civil Defense, Traffic Department, Military Police, Civil Police, Fire Department, Mobile Urgency Assistance, Federal Road Police. All together they control by cameras the main areas of the city and can solve very quickly issues of security, traffic, public order and medical urgencies.

Statistics
According to ICCA - International Congress and Convention Association, Rio de Janeiro was ranked 1st as international meetings destination in the Americas, in the last decade. Also among the top 10 and 20 several times.

ICCA - association based in Amsterdam that has the most complete data bank of international meetings in the world.
Center of Technology

COPPE

Director
Luiz Pinguelli Rosa

Vice-Director
Aquilino Senra Martinez

Director for Academic Affairs
Edson Hirokazu Watanabe

Director of Technology and Innovation
Segen Farid Estefen

Director for Planning and Administration
Guilherme Horta Travassos
12 Departments for Graduated Courses (Master and Doctoral Degrees)

- Biomedical Engineering
- Civil Engineering
- Electrical Engineering
- Mechanical Engineering
- Nuclear Engineering
- Metallurgical and Material Engineering
- Ocean Engineering
- Energy Planning
- Production Engineering
- Chemical Engineering
- Systems and Computation Engineering
- Transport Engineering
Research Facilities

116 Laboratories

Technological Park
Ocean Lab
NEO
Scientific Visualization Lab
+ 10 R&D Centers from private companies

2 Incubators
Technology Based Company (Spin-offs)
Popular Cooperatives

High Performance Computing Laboratory
Personel

325 Teaching Staff

2800 Students

1644 Master (608 with Scholarship)

1200 Doctor (480 with Scholarship)

12 programs of post-graduate studies (master and doctorate)

116 laboratories

335 Technician and Administrative Staff
Academic Output 2010

344 Master Dissertations
176 Doctoral Theses

Interaction with society:

12,000 contracts in total
1300 ongoing projects
94 patents filed
13 registered software

1842 Papers In Journals and Conferences
Interaction with Companies

- Interface between COPPE and Companies
- Professional Support
- Management of Projects
- COPPE IDEA: Spin off Companies
Projects

For Industry
- Oil and Gas
- Ship and Offshore Structures
- Energy
- Chemistry and Biotechnology
- Mining and Steel

For Government
- Public Policy Planning
- Transportation
- Social Technology

For Services
- Telecommunications
- Civil Construction
- Software
- Process Management
Technology for the Pre-Salt
COPPE - PETROBRAS Cooperation

- 1977 - Offshore Structures
- 1984 - Robotic & Control Group
- 1989 - Subsea Technology Lab
- 1998 - Personal Training and Projects in the field of Environment and Geochemistry
- 2001 - 1000 contracts with PETROBRAS
- 2003 – Ocean Laboratory
- 2006 – 2000 contracts with PETROBRAS
- 2009 – Lab for Nondestructive Tests, Corrosion and Welding
Ocean Lab

- Hydrodynamics of Floating Structures
- Offshore Equipment Analysis
- Deep Water Installations
- Prototype Evaluation
Computational Simulation
Hydroelectricity and Energy Management

- Power System
- Very Long Distance Transmission
- Renewable Energy Sources
- Energy Planning: Energy Saving and Management
Wave Energy: Electricity Generation and Desalination
- IVIG – Virtual International Institute for Global Changes – Technology for reduction of greenhouse gas emission.
- The Brazilian Forum for Climate Changes was established at COPPE
- Participation of COPPE professors in the preparation of IPCC Reports (2007 Nobel Prize).
Nuclear Energy

- Supervision and Control of Nuclear Reactor (Angra 1 e 2)
- Food Conservation
- Nuclear Medicine
Magnetic Levitation

- Development of magnetic levitation train using high temperature superconductors
- Prototype to be tested in the Campus
- Future application for urban connections
Remotely Operated Vehicle (ROV)

- Submarine Robot
- Study of the biodiversity of marine fauna in the Antarctic
- Operation up to 500 m depth and -20°C Celsius
Hydrogen Technology

**Hybrid Bus**: Electricity and Hydrogen

Fuel Cell + Battery or Ethanol Engine + Battery or Battery Only

**Capacity**: 64 passengers
Fuel Cells in Brazil

PAULO EMÍLIO V. DE MIRANDA – Professor
Hydrogen Laboratory - Materials and Metallurgy Department
Coppe - Federal University of Rio de Janeiro
pmiranda@labh2.coppe.ufrj.br
Earlier Work

• 1980: 1 kW Alcaline fuel cell at Coppe/UFRJ – Aïda Spínola

• 1981: Fuel cell oriented electrochemical work at USP, São Carlos – Ernesto Gonzalez

• 1984: Hydrogen Laboratory at Coppe/UFRJ

• 2000 on: Several groups throughout the country
• BRAZILIAN ROADMAP: HYDROGEN ECONOMY

STEPS OF THE BRAZILIAN HYDROGEN AND FUEL CELLS DEVELOPMENT

Phase 1  Phase 2  Phases 3 & 4  Phase 5

Roadmap Development 2004 to 2005

Structuring Projects for Action Plan 2007 to 2008

Roadmap revision 2007
Brazilian Hydrogen Program Launched 2008

Implementation of activities 2008 to 2025

2003

2004: Rede PaCOS

• Distributed Generation of EE
• Heavy Vehicles: Buses
• Hydrogen from Electrolysis and Biomass
• Human Resources
• Regulation, Codes & Standards
Brazilian research and development programs under development:

- **Hydrogen production** from water electrolysis, ethanol, biomass and natural gas;
- **PEMFC** research and development and industrial and commercial level projects;
- **SOFC** research and development programs; pre-commercial within three years;
- **PAFC** demonstration program, including operation of FC integrated to national transmission grid and in isolated condition;
- **Distributed energy** to supply power to remote out-of-grid communities;
- **Hydrogen storage** materials, such as advanced hydride materials;
- **Hydrogen FC Buses** for urban transportation.
The program is based on network projects in five areas:

i. Hydrogen production

ii. PEM fuel cells

iii. SOFC

iv. Systems, integration and engineering

v. Utilization, applications and use

~ 50 research groups from universities and research centers are involved

**SOFC Network: Rede PaCOS**

- Created in March 2004
- Seven Seminaries made
Standards for Hydrogen and Fuel Cells

- **ABNT NBR/IEC/TS 62282-1:2009**
  - Terminology

- **ABNT NBR ISO 15916:2010**
  - Basic hydrogen systems security issues

- **ABNT NBR ISO 14687-1:2010**
  - Hydrogen fuel – Product Specification
  - 1st part: All the application, except PEM fuel cells for road motor vehicles

- **ABNT NBR ISO 16110-1:2010**
  - Hydrogen generators that utilizes fuel processing technologies

- **ANBT NBR ISO 17268:2010**
  - Connecting device for refueling ground vehicles with compressed hydrogen

- **ABNT NBR/IEC 62282-2:2010**
  - Fuel cell technology – part 2

8 hydrogen & fuel cell companies
(Electrocell, Hytron, Uniteh, NovoCell, Clamper, Energiah, Raetech, BrasilH2)
Brazilian Energy Matrix

253,554 x 10^3 TOE

- OIL: 41.98%
- NATURAL GAS: 8.98%
- URANIUM: 0.69%
- COAL: 0.85%
- SUGAR CANE PRODUCTS: 19.27%
- FIREWOOD: 10.28%
- OTHERS RENEWABLE: 4.26%
- IMPORTS: 16.6%

Brazil: Primary Energy Production – 2010

10^3 toe

- Others
- Sugar Cane Products
- Firewood
- Hydro
- Natural Gas
- Oil


1 GWh = 86 toe, 1 toe = 42 GJ
Brazil: Primary Energy Production – 2010

Source: Míntan Leitão, “Saga Brasileira – A Longa Luta de um Povo por sua Meresa”. Published by Editora Record Ltda., Rio de Janeiro, May 2011


1 GWh = 86 toe, 1 toe = 42 GJ
Brazilian Energy Matrix

253,554 \times 10^3 \text{ TOE}

RENEWABLE SOURCES
47.5%

NON RENEWABLE SOURCES
52.5%


1 \text{ GWh} = 86 \text{ toe}, 1 \text{ toe} = 42 \text{ GJ}
Sugarcane bagasse harvested in the world: 2010

World = 1.74 Gton
Brazilian Biosyngas project

- IPT (Technological Research Institute) is conducting a project to build a 500kg/h biomass gasification pilot plant.
- 5 year project budget is US$ 50M co-financed by BNDES.
- Four industrial partners (Oxiteno, Petrobras, Raízen e Vale).

![Diagram of biomass gasification process]

CO + H₂ → BIOSYNGAS
Remote Energy Generation

- Residential
- Office Building
- Back-up Energy

Client: CEPEL / Eletrobrás

Client: AES/Eletropaulo

Client: COPPE - Hydrogen Bus

8 hydrogen & fuel cell companies (Electrocell, Hytron, Uniteh, NovoCell, Clamper, Energiah, Raetech, BrasilH2)
Brazil: Sectorial Consumption of Oil Derivates and Electricity

CONSUMPTION OF OIL DERIVATES %

- Transportation: 53.1%
- Industry: 12.3%
- Non Energy Use: 13.9%
- Others: 20.7%

3.9187 x 10^9 TOE

CONSUMPTION OF ELECTRICITY %

- Transportation: 0.4%
- Industry: 55.4%
- Others: 44.2%

1 GWh = 86,880 toe, 1 toe = 42 GJ
Fuel Cell Bus
H₂ from electrolysis
São Paulo City

Focus: Development of the infrastructure for urban use of hydrogen buses.

Partners:
Motivation

Hybrid Electric Hydrogen FuelCell Bus

less-polluting vehicles.

Rio de Janeiro Metropolitan Area possesses 16,800 busses,

- 130 million gallons of diesel/year are burnt
- 4.5 million passengers/day are transported
- transports emit 77% of the pollutant gases in Rio Metropolitan area
- reduction of pollution and noise may avoid R$ 600 million/year spent with public health
- Rio will have a non-polluting bus fleet for the 2016 Olympic Games
Bus fleets constitute important mass public transportation in Brazil

- In Brazil’s 14 largest cities (bearing more than 1 million inhabitants) there are 67,000 busses
- 0.7 billion gallons of diesel/year are burnt, discharging 6.2 million tons/year of pollutants (CO₂, CO, HC, NOₓ, SOₓ, PM)
- Brazil has a strong bus industry

Gateway for the Hydrogen Economy in Brazil
Historical of the Development

- Since 1999 the Hydrogen Laboratory at the UFRJ makes incremental developments of parts and systems. Hybrid-electric power train with predominance of batteries began to be conceived;

- It converged in 2005 to the executive project of a plug-in type 12m urban low-floor bus, with a low power fuel cell to work in steady-state condition and also with an efficient regenerative breaking technology. The project was co-financed by Finep, Petrobras and accomplished with the partnership of companies;

- All subsystems were designed and bench tested before being embarked;
In 2009 the vehicle’s electrical power train became operational;

Business Plan for industrialization and commercialization is being developed to prepare deployment for the 2014 Soccer World Cup and the 2016 Olympic Games, with the support of Fetransport, the City and the State of Rio de Janeiro;

Launching of the first prototype took place on May 26th, 2010 in Rio de Janeiro.

In the last 18 months the first prototype was thoroughly tested and a new prototype was created with a new and improved technology for hybrid-electric hydrogen fuel cell bus.
160Ah, 3.2 VDC per element, ion-lithium traction battery bank and a homemade battery management device: hardware and software.

- Fuel cell system radiators
- Four 7.2 kg H2 capacity, type-3, 350 bar, hydrogen storage cylinders
- High and low pressure gases system, including tubing, valves, gauges and manifolds
- 77.2 kWe stationary operation PEM type fuel cell with balance of plant
- Traction inverter motor drive that operates in vector mode
- Refueling system
- Ultracapacitors and homemade ultracapacitors management device: hardware and software
- Electric powered pneumatic air compressor
- Electric powered hydraulic direction pump; 143.5 kWe AC squirrel cage motor type with encoder
- Home made electronic power system and main vehicular energy control device: hardware and software – UCPEV, standing for this meaning in Portuguese.
Our first electric-hydrogen hybrid bus prototype

- Conquered four out of six possible 1st places in Challenge Bibendum 2010, the 10th version of a worldwide competition organized by Michelin

- Was awarded with the Academia Green Best award of 2011
Three electric plug-in busses

- Hybrid electric-hydrogen
- Hybrid electric-ethanol
- Totally electric
Infraestrutura
Infrastructure
<table>
<thead>
<tr>
<th>Company</th>
<th>Weekly Frequency</th>
<th>Cities</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Arrivals</td>
<td>Departures</td>
</tr>
<tr>
<td>Avianca</td>
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<td>97</td>
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<tr>
<td>Azul</td>
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<td>177</td>
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<tr>
<td>Pantanal</td>
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<td>6</td>
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<tr>
<td>Passaredo</td>
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<tr>
<td>Team</td>
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<tr>
<td>Trip</td>
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<tr>
<td>Webjet</td>
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</tr>
<tr>
<td><strong>Total:</strong></td>
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<td>2184</td>
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</tbody>
</table>

*ANAC*
## INTERNATIONAL FLIGHTS - RIO DE JANEIRO*

<table>
<thead>
<tr>
<th>Air Company</th>
<th>Weekly Frequency</th>
<th>Cities</th>
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<tbody>
<tr>
<td></td>
<td>Arrival</td>
<td>Departure</td>
</tr>
<tr>
<td><strong>Aerolineas Argentinas</strong></td>
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<td>35</td>
</tr>
<tr>
<td><strong>Air France</strong></td>
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<td>14</td>
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<tr>
<td><strong>Alitalia</strong></td>
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<td>3</td>
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<tr>
<td><strong>American Airlines</strong></td>
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<td><strong>British Airways</strong></td>
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<tr>
<td><strong>Continental Airlines</strong></td>
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<tr>
<td><strong>Copa Airlines</strong></td>
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<tr>
<td><strong>Delta Airlines</strong></td>
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<tr>
<td><strong>Emirates</strong></td>
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<td>7</td>
</tr>
<tr>
<td><strong>Gol</strong></td>
<td>33</td>
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<tr>
<td><strong>Iberia</strong></td>
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<td>6</td>
</tr>
<tr>
<td><strong>KLM</strong></td>
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<tr>
<td><strong>LAN Chile</strong></td>
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<tr>
<td><strong>Lufthansa</strong></td>
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<td>5</td>
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<tr>
<td><strong>Pluna</strong></td>
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<tr>
<td><strong>TAAG Airlines</strong></td>
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<tr>
<td><strong>TACA Peru</strong></td>
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<td><strong>TAM</strong></td>
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<td><strong>TAP</strong></td>
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<tr>
<td><strong>United Airlines</strong></td>
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<tr>
<td><strong>US Airways</strong></td>
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<tr>
<td><strong>Total:</strong></td>
<td>276</td>
<td>276</td>
</tr>
</tbody>
</table>

* ANAC (Hotran)
Access

Air Travel Time
- from major European capitals - about 11 or 12 hours flight
- from North America - from 9 to 14 hours flight
- from Central America - about 7 hours flight
- from South America - from 3 to 8 hours flight
- from Africa - about 10 hours flight
- from Asia - about 25 hours flight
- from Oceania - about 18 hours flight

Rio is linked to airports in more than 80 countries.

26 international and national airlines link Rio de Janeiro to the main capitals of the world:

Aerolineas Argentinas
Air France
American Airlines
Avianca
Azul
British Airways
Continental Airlines
Copa Airlines
Alitalia
Delta Airlines
Gol
Iberia
KLM
Lan Chile
Lufthansa
Ocean Air
Pantal
Emirates
Pluna
TAAG
TACA
TAM
TAP
United Airlines
US Airways
Webjet
Visa to Brazil is **not** required for citizens of the following countries

<table>
<thead>
<tr>
<th>Argentina</th>
<th>Honduras</th>
<th>Poland</th>
</tr>
</thead>
<tbody>
<tr>
<td>Austria</td>
<td>Hungary</td>
<td>Portugal</td>
</tr>
<tr>
<td>Belgium</td>
<td>Iceland</td>
<td>San Marino</td>
</tr>
<tr>
<td>Bolivia</td>
<td>Ireland</td>
<td>Slovakia</td>
</tr>
<tr>
<td>Bulgaria</td>
<td>Israel</td>
<td>Slovenia</td>
</tr>
<tr>
<td>Chile</td>
<td>Italy</td>
<td>South Africa</td>
</tr>
<tr>
<td>Colombia</td>
<td>Luxemburg</td>
<td>South Korea</td>
</tr>
<tr>
<td>Costa Rica</td>
<td>Macao</td>
<td>Spain</td>
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<tr>
<td>Croatia</td>
<td>Malta</td>
<td>Suriname</td>
</tr>
<tr>
<td>Czech Republic</td>
<td>Monaco</td>
<td>Sweden</td>
</tr>
<tr>
<td>Denmark</td>
<td>Morocco</td>
<td>Switzerland</td>
</tr>
<tr>
<td>Ecuador</td>
<td>Netherland</td>
<td>Thailand</td>
</tr>
<tr>
<td>Finland</td>
<td>New Zealand</td>
<td>Trinidad &amp; Tobago</td>
</tr>
<tr>
<td>France</td>
<td>Norway</td>
<td>Tunisia</td>
</tr>
<tr>
<td>Germany</td>
<td>Paraguay</td>
<td>Turkey</td>
</tr>
<tr>
<td>Great Britain</td>
<td>Peru</td>
<td>Uruguay</td>
</tr>
<tr>
<td>Greece</td>
<td>Philippines</td>
<td>Vatican</td>
</tr>
</tbody>
</table>

- Brazil has diplomatic representation in several countries in all continents around the world.
Rio de Janeiro International Airport - Galeão / Antonio Carlos Jobim

Located at Ilha do Governador
20 minutes from main hotels in the South Zone by the express ways Linha Vermelha (Red Line) or Linha Amarela ( yellow line )
38 minutes from Riocentro (the largest Convention Centre in Latin America)
Transportation - air conditioned bus, taxi, shuttle bus
Capacity: 15 million passengers per year
520 flights per day
Gates: 12 (7 international and 5 national)
2 Terminals
Enlargement investment: R$ 405.000.000,00

Domestic Airport Santos Dumont

Located downtown
10 minutes to the South Zone and main hotels
Capacity: 5 million passengers per year
273 flights per day
Gates: 6
Terminal: 2
Airlines: 6 national airlines
Hotels in Rio de Janeiro

Rio de Janeiro has today about 28,000 hotel rooms in various categories.

Hotel rates in Rio in general range as follows:
- 5 stars - from US$ 250
- 4 stars - from US$ 200
- 3 stars - from US$ 150

Hotel taxes in Rio are about the same as those practiced worldwide: 5% city tax, 10% service tax, tourist room tax (US$ 4.4 for 5 star hotels, US$ 1.9 for 4 star hotels, US$ 1.25 for 3 star hotels – per room per night).

Some famous international hotel chains: Caesar Park, Sheraton, Tulip, Marriott, Orient Express. Some famous national hotel chains: Othon, Windsor

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>*****</td>
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<td>48</td>
<td>****</td>
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<tr>
<td>53</td>
<td>***</td>
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<tr>
<td>34</td>
<td>**</td>
</tr>
<tr>
<td>14</td>
<td>*</td>
</tr>
<tr>
<td>65 Hostels, bed &amp; breakfast, etc.</td>
<td></td>
</tr>
</tbody>
</table>

- Total:

    Establishments from all categories, totaling about 28,000 rooms.
TRANSPORTS

Private Transportation

Rio de Janeiro counts on experienced companies to provide shuttle buses to attend meetings and events

Traffic Control - military police participates coordinating the traffic opposite the hotels and in adjacent streets

Public Transportation

- Large bus service linking all areas of the city
- Special air conditioned buses
- Taxis – 35,000 cars all over the city
- Metro / subway - 42 Km and 2 lines linking Ipanema, Copacabana, Downtown and the North Zone.
- Car rental companies.

As the city will host the FIFA World Cup in 2014 and the Olympic Games in 2016 Rio de Janeiro will receive investments to improve its infrastructure for airports, ports, roads, transport, accommodation, leisure and services.
Transportation Expansion Projects in Rio de Janeiro

Line 4 will allow 240,000 people to move daily from Barra da Tijuca to the city center in just 35 minutes. With 14 km of extension, the new metro line will pass through the neighborhoods of Rio's Barra da Tijuca, Sao Conrado, Gávea, Leblon and Ipanema. The stations will be delivered simultaneously in December 2015.

The actions provided for the 2016 Olympic Games are perfectly connected to those of the 2014 World Soccer Cup. The major projects in Rio de Janeiro shall contemplate among others:

- Transcarioca: connection Barra da Tijuca - Penha (T5 Corridor), in BRT (bus rapid transit).
- Transoeste: connection
- C connection, in BRT, between Deodoro and Barra da Tijuca.
- TransCarioca (Corridor T5) - concept
- Totally segregated from local traffic.
- Implemented alongside the ways with a high number of bust trips.
- Possibility of surpassing at the stations, for express lines.
- Stations with 90 cm. height for embarkation at the buses level, being 30 simple stations (local), 6 express stations (express local) and 2 terminals.
- Tickets Integration with large capacity modules.

Served by feeding and complementary bus lines:
- Feeding Bus Lines: Shorter lines interconnecting the T5 Corridor with the boroughs located in the projected influence area;
- Complementary Bus Lines: Longer lines connecting the T5 Corridor to the City's downtown area and main urban areas.

Lagoa – Barra Connection – concept
- Creation of two additional pathways between Gavea and São Conrado and between São Conrado and Barra da Tijuca, with the construction of new tunnels and avenues connecting these regions. Includes 3 divers, 1 new tunnel linking Gávea, São Conrado (2.6 km), 1 new tunnel linking the São Conrado - Barra (2.8 km) and duplication of expressways to 4 tracks. Project still under review.

Deodoro – Barra Connection – concept
- Two main lines, and six lanes of traffic, three in each direction.
- To be operated in a segregated way of general traffic of Avenida Brasil in Deodoro to Barra da Tijuca. Total length of 23 km, with two galleries of tunnels of 3.4 km each.

Will meet demand of 130 thousand passengers per day through BRT. Will have capacity for 30 thousand cars per day.
Espaço para Eventos
Venues
RIOCENTRO GENERAL CHARACTERISTICS

RIOCENTRO was specifically designed and built to host different kinds of national and international events. The complex is formed by five Pavilions, interconnected by 16 meter wide catwalks. Pavilions 1, 2, 3 and 4 were designed to host Fairs and Exhibitions and Pavilion 5 – The Congress Hall –, to host Congresses and Conventions.

The entire Riocentro can be used for one large conference or divided into units for partial occupancy. In either case, the necessary privacy and security are assured. Among our facilities, one can find a restaurant, medical aid, telecommunications and a parking space for 7,000 cars and 130 buses.

LOCATION

Riocentro is located in Barra da Tijuca a new area of the city, classified as of medium-high human development. According to the demographic data, the region had the fastest growth in the city in the nineties, with 124 thousand new inhabitants. Rich in contrasts and considered one of the most beautiful areas of the city, the region offers several lagoons, mountains and 30 km of beaches along the coastline. Barra da Tijuca more than a commercial, leisure and entertainment nucleus, turned into an economic center.

Several industries migrated to the area which currently offers to inhabitants and visitors several shopping malls; different options for sports and leisure and an impressive economic growth. In all directions, the view always includes lagoons, mountains or sea.

DISTANCE FROM THE AIRPORTS

International Airport Antonio Carlos Jobim – 40 minutes
Domestic Airport Santos Dumont – 35 minutes
ABOUT THE RENOVATIONS OF RIOCENTRO

Recently privatized by GL events, a company known worldwide by the quality in the administration of convention centers in three continents, Riocentro started in 2006 several actions envisaging better serve the needs of the clients.

Internal areas and structural renovations on its five Pavilions will be concluded within a few more weeks, offering an exceptional quality for our forthcoming events. We hosted 12 modalities of the Pan American Olympic Games in our Complex, not to mention all the broadcasting and Press Center for the Games.

Pavilions 2, 3 and 4 – Exhibit Pavilions – are now offering climatization. Mezzanines are received new paint and carpets; bathrooms are fully renovated. Renovation also covers of all the hydraulics, electrical, and floor treatments.

Pavilion 5 – Congress and Conventions Hall – With an auditorium fully renovated, doubling its capacity from 2,400 to 4,500. New conceptions of multi functionality, with removable acoustic partitions, enable several different formats allowing full and/or partial rent.

ARIOCENTRO – SITUATION PLAN
EXHIBIT PAVILIONS – SPECIFICATIONS

PAVILION 1

Pavilion 1 – The Central Hall, with 17.466 sqm, opens the accessibility and optimizes the whole Complex. Interconnected by ramps and stairs, the facility allows a special dynamic for the events. On the first level, there is no load limitation, enabling any kind of equipment. On the second level, the maximum load permitted is 500 kg/sqm.

Floor Plan – Pavilion 1

- Total area: 17.466 sqm
- Exhibit area: 15,000 sqm
- 01 Mezzanine: 2,320 sqm
- Storage: 146 sqm
PAVILION 2

With a total area of 11,545 sqm and 10,706 sqm of free sequential area, Pavilion 2 is prepared to host any type of event, allowing the Exhibition of vehicles, boats and heavy machinery. Apart from its proportions, facilities are given to exhibitors such as underground grooves distributing energy, water, sewage, phone, compressed air, with connection points at every 6 meters. Flat surface has a load capacity of 1,500 kg/sqm.

Two support rooms, situated on a higher level, allow a strategic view from the whole Exhibit area. Entrance of vehicles and equipments is made through its private dock, with approximately 100 m of length, allowing up to 17 trucks to unload simultaneously. Three storages are also available, totalizing 641 sqm.

Floor Plan - Pavilion 2

Total area: 11,545 sqm
Exhibit area: 10,706 sqm
Height: 10 m
2 Mezzanines: 202 sqm each
Mezzanines Height: 2,50 m
Storage D1: 246 sqm
Storage D2: 235 sqm
Storage D3: 200 sqm
Storages height: 10 m
PAVILION 3

With a total area of 22,062 sqm, and 20,416 sqm free sequential area Pavilion 3 is prepared to host any type of event, allowing the Exhibition of vehicles, boats and heavy machinery. Apart from its proportions, facilities are given to exhibitors such as underground grooves distributing energy, water, sewage, phone, compressed air, with connection points at every 6 meters. Flat surface has a load capacity of 1,500 kg/sqm.

Four mezzanines situated on a higher level allow a strategic view from the whole Exhibit area. Entrance of vehicles and equipments is made through its private dock, with approximately 100 m of length, allowing up to 19 trucks to unload simultaneously. Three storages are also available, totalizing 1,714 sqm. This Pavilion has also a 580 sqm auditorium.

Floor Plan - Pavilion 3
PAVILION 4

With a total area of 22.723 sqm, and 21.453 sqm free sequential area Pavilion 4 is prepared to host any type of event, allowing the Exhibition of vehicles, boats and heavy machinery. Apart from its proportions, facilities are given to exhibitors such as underground grooves distributing energy, water, sewage, phone, compressed air, with connection points at every 6 meters. Flat surface has a load capacity of 1.500 kg/sqm.

Four mezzanines situated on a higher level allow a strategic view from the whole Exhibit area. Entrance of vehicles and equipments is made through its private dock, with approximately 100 m of length, allowing up to 19 trucks to unload simultaneously. Three storages are also available, totalizing 816 sqm. This Pavilion has also a 408 sqm auditorium

Floor Plan - Pavilion 4

Total area: 22.723 sqm
Exhibit area: 21.453 sqm
Height: 12 m
4 Mezzanines: 202 sqm each
Mezzanines Height: 2,50 m
Storage D1: 152 sqm
Storage D2: 319 sqm
Storage D4: 345 sqm
Storages height: 12 m
Auditorium A: 408 sqm
Auditorium height: 5 m
PAVILION 5 – CONGRESS & CONVENTIONS PAVILION – First Floor

The Ground floor has a multifunctional free area of 4,000 sqm, with acoustic partitions allowing set up of exhibitions, shows and/or an auditorium with a seating capacity up to 4,500 paxs.

Other facilities can be found on the ground floor, such as: industrial kitchen; support rooms; VIP Room; First Aid Room; 2 dressing rooms; air conditioning and a hall with 2,455 sqm. This Pavilion also has its private docks.

Floor Plan – First Floor
PAVILION 5 – CONGRESS & CONVENTIONS PAVILION – Second Floor

The Upper Floor offers flexibility with six large divisible rooms. Rooms **201, 202, 203 and 204** each 694,90 sqm and 4.30 m height. If fully open, each of these rooms has a seating capacity up to 600 paxs. In each of them, two removable acoustic walls allow different formats for the room.

A large circulation area and a Mezzanine, allow clients to set up Coffee Breaks; Poster Sessions; Smaller Exhibitions or simply use the areas for lounges or Cyber Cafés.

(detail of the Circulation Area)
FLOOR PLAN – Second Floor
Windsor Barra Hotel

Located on the Barra da Tijuca Beach, the Windsor Barra invites you to enjoy great sea views while relaxing in the swimming pool or in the panoramic bar on the rooftop.

In addition to a complete infrastructure for conferences, this 5-star hotel provides 338 spacious rooms with air conditioning, cable TV, soundproofed windows and other amenities.

After an eventful day in Rio, you can still spend the energy left in the gym or in the tennis and squash courts.

You are also welcome to enjoy the services provided by the spa, restaurants and bars.

**Address**
Av. Sernambetiba, 2630 Barra da Tijuca - CEP 22620-170 - Rio de Janeiro

Phone: 55 21 2195-5000 - Fax: 55 21 2195-5050
EVENTS

Recognized by the renowned Magazine Guia 4 Rodas, 2009 and 2010 editions, the Windsor Barra Hotel is the best hotel for events in Brazil. It is the largest and the best equipped venue for events in Rio de Janeiro, with 60 up-to-date meeting rooms in an area of more than 9,000 square meters with independent access from the hotel. Our catering experience with small, medium and large events makes the difference in the market.

The Windsor Barra Hotel offers a complete structure for events, from exclusive parking to the restaurant for up to 550 persons. Its architecture combines beauty and utility, in five different floors, which makes easier the coming and going of people. The best catering for your event to be a success.

### 2nd Basement

Meetings, Cocktails, etc...

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<th>Room</th>
<th>M²</th>
<th>Total area</th>
<th>Height</th>
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### 1st Basement

Meetings, Cocktails, etc.

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### Ground Floor

Meetings, Cocktails, etc.

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### 1st floor

Meetings, Cocktails, etc.

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<th>Height</th>
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### 2nd floor

Meetings, Cocktails, etc.

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<th>Height</th>
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### Penthouse

Meetings, Cocktails, etc.

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<th>Height</th>
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<td>Windsor</td>
<td>167</td>
<td>200</td>
<td>110</td>
<td>160</td>
<td>100</td>
<td>--</td>
<td>50</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Convention Centers within hotels

- **Capacity from 500 to 5,000 people**
  
  Royal Tulip          Sheraton Rio Hotel & Resort  
  Rio Othon Palace     Sofitel Rio de Janeiro  
  Windsor Barra Hotel  Copacabana Palace  
  Windsor Atlantica Hotel

- **Capacity from 200 to 450 people**
  
  Caesar Park         Pestana Rio Atlântica  
  Sheraton Barra Hotel & Suites  Windsor Plaza  
  JW Marriott Rio de Janeiro  Transamerica Flat Barra  
  Marina Palace

- **Capacity from 50 to 180 people**
  
  Everest Rio        Windsor Miramar  
  Windsor Excelsior  Porto Bay Rio Internacional  
  Best Western Rio Copa  Leme Othon Palace  
  Best Western Sol Ipanema  Golden Tulip Regente  
  Golden Tulip Ipanema Plaza  Golden Tulip Continental  
  Leblon Palace       Mercure Botafogo  
  Merlin Copacabana   Santa Teresa Hotel
Some important events in Rio de Janeiro:

**United Nations Conference for Environment and Development - Rio'92**
Date: 1992
Nr. of participants: 20,000

**13th World Congress of Cardiology**
Date: 1998
Nr. of participants: 19,000

**Americas Telecom Rio 2000**
Date: 2000
Nr. of participants: 27,000

**17th World Petroleum Congress and Rio Oil & Gas**
Date: 2002
Nr. of participants: 40,000

**3rd Conference on HIV Pathogenesis and Treatment**
Date: 2005
Nr. of participants: 6,000

**11º Intl Congress of the World Federation of Public Health**
Date: 2006
Nr. of participants: 10,000

**13th International Congress on Immunology**
Date: 2007
Nr. of participants: 6,000

**13th International Congress of Endocrinology**
Date: 2008
Nr. of participants: 6,000

**Soccerex Global Convention**
Date: 2011
Nr. of participants: 4,000

**World Congress of Neuroscience**
Date: 2015
Nr. of participants: 4,000

**Olympic Games 2016**
Date: 2016
Nr. of participants: 2,000,000
Social Events Venues

Pão de Açúcar (Sugar Loaf)

www.bondinho.com.br
Besides being Rio’s symbol for tourists around the world, is an ideal space for shows, private or company celebrations, cocktails and banquet parties or any sort of events. The events area is located on Urca Hill. Here are the Amphitheater, Discs, Gardens and Morro da Urca Restaurant. From any spot you have a remarkable view of Rio de Janeiro. Capacity: Cocktail = until 700; Dinner = until 400; Auditorium = until 1,500

Ribalta

www.ribalta.com.br
One of the most sophisticated, exclusive, versatile settings in Rio de Janeiro, with 4,000 sq.m of free area, Ribalta is prepared to host a variety of events. Technical equipment: air conditioning; generator, stage (16m X 13m), acoustic treatment, high technology sound system, 4 Barco screens of 6,400 lumens each. Capacity: Auditorium = 4,000; Banquets / cocktails = 2,500 (round tables)

Villa Riso

www.villariso.com.br
The original colonial house has been fully restored with modern conveniences. Located in a privileged place surrounded by 22,000 sq.m of exuberant tropical gardens, it is close to the city’s best hotels in the area. Villa Riso’s multilingual staff is expert in organizing events as conventions, symposia, gala dinners, theme parties and cocktails. Capacity: Auditorium = 600; Cocktail = 800; Banquet = 430
Pier Mauá – Maritime Passengers Station

www.piermauasa.com.br

Pier Mauá converts itself in a city cultural attraction too. In an open area, with full view of the cruisers, there are shows for thousands people with national and international attractions.

- Warehouse 1:
  - Shops, Bar and Restaurant (Annex Building): 1,336.70 sq.m
  - Maritime Passengers Station: 1,587.50 sq.m
  - Check-in: 1,427.40 sq.m
  - Reception and Baggage: 3,500 sq.m
- Warehouse 2: 3,500 sq.m - Exhibitions / Events / Commercial Area
- Warehouse 3: 3,500 sq.m - Exhibitions / Events / Commercial Area

Iate Clube do Rio de Janeiro

www.icrj.com.br

The Iate Clube do Rio de Janeiro was founded in 1920 with its headquarters in privileged location, Urca, Rio de Janeiro, aside to the main postcard from Brazil, Sugar Loaf. It has sophisticated branch offices in major resorts on our coast: Angra dos Reis, Cabo Frio and Ilha de Palmas. Our Club offers structure for events, naval sports and navigation following international standards, where several national and international nautical events take place. It provides structure for the realization of business, social, sporting and cultural events.

SPACES FOR EVENTS

Salão Martin Azul - Refrigerated, with capacity for 300 people (in unique environment), all in glass with a view to the inner gardens of the club.

Salão Nobre - Refrigerated, with capacity for 100 people (in both environments, internal and external), with a view to Guanabara Bay and Sugar Loaf.

Pérgula da Piscina (Pool Pergola) - With a postcard like view and surrounded by 96 palm trees, has a privileged view of the Sugarloaf and Guanabara Bay. With capacity of approximately 1,300 people. Ideal location for weddings, anniversaries, birthdays, business gatherings and much more you can create.

Centro Cultural Gabriel Villela - Refrigerated, with capacity for 150 people. It offers brand new audiovisual equipment (High definition HD 1080).
Gastronomic Center Victoria

www.complexovictoria.com.br

One of the attractions from the Espaço Victoria is one of the most dazzling landscapes of the Rio de Janeiro – the trail of the Hippodrome in Gávea, with the National park from Tijuca, Christ Redentor, “Pedra da Gávea” and “Morro Dois Irmãos” at the bottom.

<table>
<thead>
<tr>
<th>Capacity Room</th>
<th>Area (m²)</th>
<th>Height (m)</th>
<th>Auditorium</th>
<th>Cocktail</th>
<th>Buffet 1 *</th>
<th>Buffet 2 **</th>
<th>Empratado</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indoor Room</td>
<td>350</td>
<td>3,6</td>
<td>250</td>
<td>400</td>
<td>310</td>
<td>200</td>
<td>250</td>
</tr>
<tr>
<td>Small Varanda</td>
<td>77</td>
<td>-</td>
<td>-</td>
<td>50</td>
<td>40</td>
<td>40</td>
<td>50</td>
</tr>
<tr>
<td>Big Varanda</td>
<td>156</td>
<td>-</td>
<td>120</td>
<td>100</td>
<td>60</td>
<td>80</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>583</td>
<td>-</td>
<td>250</td>
<td>570</td>
<td>450</td>
<td>300</td>
<td>380</td>
</tr>
</tbody>
</table>

P.S.:
1) All the settings are calculated with dance floor.
2) *Buffet 1 = Setting with round tables and lounges style.
3) **Buffet 2 = Setting with round tables only.

Rio Marina da Glória

www.marinadagloria.com.br

Central and easy to reach, five minutes from Santos Dumont Airport, complete infrastructure, parking for more than 1,000 cars and total security for exhibitions, fairs, product launches, auctions, meetings, shows, corporate entertainment, congresses and anything else you can imagine.

EVENTS PAVILION #1: 3,000m² of covered area; panoramic view of the bay; complete infrastructure: independent kitchen entrance and restrooms; capacity for up to 3,500 people

EVENTS PAVILION #2: Located on the outer point of the Marina da Glória; 1,100m² Covered Area; 3 support marquees, each with 100m² space and bar facilities; more than 1,000m² of open air space; seats up to 800 people for a dinner and holds up to 1,000; for cocktails with stage and dance floor.

AUDITORIUM: Ample parking, air conditioned throughout, meeting room, support kitchen and pantry. The auditorium is located alongside Pavilion #1, and offers comfort and security for 180 people.

OTHER AREAS: More than 12,000 sq.m available for assembling outdoor events
**Rio Scenarium**

www.rioscenarium.com.br
This concert house located at Lapa with live music, dinner services with dishes and snacks offers many possibilities to the arrangement of social and conventional commercial events. The house, 3 floor storied high, dating 1860, with attached areas to the original construction, offers many options for the production of events from 50 to 1000 people.

**Exclusive Room**
A 960 ft² room, decorated with objects and old furniture, which can be moved according to the necessity of the event. The room also includes a fixed stage for concerts and shows. The sound of the room is provided by third parties. It includes a space special for breakfast, brunch, lunch, cocktail ceremonies and dinner. Fully air-conditioned and separate restrooms for ladies and gentlemen, this room has everything needed to make a great event and it all can be provided by the support staff.

**Differentiated Spaces**
The house still offers spaces for smaller groups, which can be exclusive, according to the group size:
• A specially decorated space called Pharmácia, on the 2nd floor for groups up to 60 people.
• A decorated space with pieces of the opera singer Nadir de Mello Couto, on the 2nd floor, has capacity of up to 100 people. This space can be attached to an identical space on the 1st floor, doubling its capacity.

**Albamar Restaurant**

www.albamar.com.br
The traditional Albamar Restaurant, in Praça XV, after restoration and redecoration, presents its new area for events – the Albamar Space, an events hall with a seating capacity of 100, with standing room for another 200 people on the second floor.

**Julieta De Serpa House Of Art And Culture**

www.casajulietadeserpa.com.br
Built in 1920 on Flamengo beach front, the impressive “palace” with its wonderful French neoclassic architecture, today contains the House of Art and Culture, consisting of 3 principal spaces: the restaurant (54 places), the Bistro BS (25 places) and the Salon D’Or (25 places).
Lonier Events

www.lonier.com.br
Space for various types of events. 10 minutes from Barra da Tijuca, Lonier has the largest and most complete infrastructure for hosting your event. A total of 200,000m² of green area, framed by the Atlantic Forest, with salons, auditoriums, aquatic park, sports courts, a football field and 40 wonderful suites.

Offices Shopping Leblon

www.protel.com.br
Administration: Rede Protel. Located strategically in the South Zone of Rio de Janeiro, an excellent option for meetings, conventions, workshops, parties and various types of event, with facilities in accordance with the characteristics of the event. Auditorium for 90 people.

Real Astoria

www.realastoria.com.br
The second floor, with an area of 500m², is an ideal space for a variety of events. With an exclusive kitchen and a panoramic view of Guanabara Bay and the Sugar Loaf, the space has an excellent infrastructure for commemorations, parties, shows and events, with services including decoration, sound, and a buffet with a specialized chef. The Baco salon is ideal for private events, and the Enseada salon for meetings with special services for receptive tourism.

Copacabana Fort

www.fortedecopacabana.com
Sphere of Activity: The principal mission of the Army Historical Museum and Copacabana Fort is to preserve, safeguard and disseminate the history of the Brazilian Army, as well as providing a cultural center, with leisure and cultural facilities for its visitors. The cultural calendar is intense and the attractions are varied and free.

Spaces for Events:
Octávio Correa Promenade
Salon for Cultural Events
Art Gallery
Familiarization Room
Campo Marte
Lieutenant Siqueira Campos Square.
Passeios Turísticos
Tours
TOURS IN RIO

Corcovado – Christ the Redeemer
ONE OF THE NEW 7 WONDERS OF THE WORLD

This is one of the main beauty spots in the city, standing 2,330 feet above sea level and providing a sweeping panoramic view of sea and mountain, a world famous vista. The mountain is crowned with the statue of Christ, 98 feet high with a 26 foot pedestal containing a chapel that can hold 150 people. The top of the Corcovado can be reached by electric train or by car. Address: Railroad Station - Rua Cosme Velho, 513 - Cosme Velho - Phone: (55 21) 2558-1329 Visiting hours: Daily 8:30am

Sugar Loaf

This natural symbol of Rio de Janeiro can be seen at the entrance to Guanabara Bay. There are two stages in the cable-car trip to the top of the rock. The first is from the station at Praia Vermelha to Urca Hill, which rises 705 feet above the bay, and the second links Urca Hill to the top of Sugar Loaf, 1,300 feet high. Each stage lasts three minutes. For tourists seeing Rio from the air, there is now a Tourist Heliport located on the top of Urca Hill. Address: Cable Car Station - Av. Pasteur, 520 - Praia Vermelha - Phone: (55 21) 2546-8400 Visiting hours: Daily, 8am - 10pm
Lapa Arches and Santa Teresa district

Located in the Largo da Lapa Square, the center of Rio’s turn-of-the-century nightlife, the Lapa Arches hold their place in history as the most monumental work undertaken in colonial Rio. This magnificent structure contains 42 arches in two tiers. Originally built as an aqueduct to supply the city with water, today they carry another outstanding attraction: the scenic tramlines linking the Carioca Station downtown to the picturesque Santa Teresa district, a vibrant artistic community, with a great range of bars, restaurants, museums, cultural centers and artist’s studios.

Municipal Theater

Designed and built by A. Guilbert and Francisco de Oliveira Passos, the theatre was inaugurated on July 14, 1909. The main murals are by Eliseu Visconti - the ceiling and back drop - by Rodolfo Amoedo. Mosaics are by Henrique Bernadelli.

Address: Pça. Floriano, s/nº - Downtown - Phone: (55 21) 2544-2900 - Guided visit: Mon/Tue and Thu/Fri , 9am - 4pm

Botanical Garden

A paradise of plants and trees from the four corners of the earth. Founded in 1808, it spreads over an area of about 340 acres. Over 5000 species of plants, some of the most impressive being the Imperial Palms planted in 1842.

Address: Rua Jardim Botânico, 1008 - Jardim Botânico - Phone: (55 21) 2294-9349 Open: Daily, 8am - 5pm
Tijuca Forest

Río’s largest park is the Tijuca National Park, covering 3,300 hectares, and including Tijuca Forest. The Park is the largest urban forest in the world. As you look up at the Corcovado from the Lagoa, the mass of greenery clinging to the edge of the mountain and stretching miles to your left, is the Tijuca National Park. Roads run through the entire length of the park allowing visitors to enjoy its many natural wonders, and at the weekend some of the routes become pedestrian only. The most well known part of the park is the Tijuca Forest which is reached from Alto da Boa Vista, accessible from all parts of the city. Address: Praça Afonso Viseu - Alto da Boa Vista.

Beaches

Río has 90km of white sand beaches of which the following are the most interesting: Copacabana, Arpoador, Leme, Ipanema, Leblon, Vermelha, São Conrado, Barra da Tijuca, Recreio dos Bandeirantes, Prainha, Grumari, Macumba.

And more:

Maracanã: famous soccer stadium where the Brazilian teams play to an enthusiastic fan crowd.

Brazilian Music: musical performances and free concerts can be seen throughout the year all over the city.

Gastronomy: Río is paradise for those who enjoy good dining. Fine, elegant restaurants feature international cuisine as well as savory, exotic Brazilian dishes.

Other options include: the historic heart of Río, museums and galleries, Santa Teresa with artists’ studios, old houses and a trolley car, the Rodrigo de Freitas Lagoon and beaches with their kiosks and live music.
RIO DE JANEIRO SURROUNDINGS

Costa Verde (Green Coast)

Angra dos Reis, Ilha Grande, Paraty, etc.

Islands, coves, beaches, mountains and the indescribable beauty of the deepness of the sea

The natural beauty and resources of the green coast are uncountable – the sea color, the Atlantic Forest’s exuberance, the endless number of paradisiacal islands. The Green Coast is the perfect setting for nautical sports, deep-sea fishing and long boat tours.

Serra Verde Imperial (Imperial Green Mountain)

Petrópolis, Itaipava, Nova Friburgo, etc.

Privileged weather, good restaurants and the charm of the Imperial City

Going up the mountain region is always a pleasure, all year-round. The climate invites to the pleasure of good food and the region is rich in excellent restaurants, hotels, cozy inns and gorgeous sceneries. The winter festivals are always great events through out the year. Rivers with clear water, waterfalls, trails, exuberant forest – an invitation to mountaineering and ecotourism.
Vale do Café (Coffee Valley)

Vassouras, Valença, Conservatória, etc.

The nobility of its farms and the big colonial houses complements the scenery of a welcoming atmosphere and climate. The Coffee Valley Region offers the visitors an excellent weather and a Rio de Janeiro historical trip through its rural architecture - big colonial houses, farms and slave houses - a rich cultural patrimony worth visiting and exploring. The exuberance of the Atlantic Forest provides many leisure options for ecological adventure, rural, and musical tourism.

Agulhas Negras (Black Needles Mountain)

Mauá, Itatiaia, Agulhas Negras, etc.

Mountain climate, lots of green and peaks covered with snow in winter time.

The Agulhas Negras region is one of most precious ecological sanctuaries due to its exuberant nature and surprising natural beauty. The European culture - present in its local gastronomy - completes the scenery. All this natural wealth in the National Park of Itatiaia, the first one in Brazil. The park shelters animals and vegetation variety that exists only in this region. It is the perfect setting for long walks, diving into crystal clear and frozen waters or simply watch the exuberant nature of one the most beautiful regions of the State of Rio de Janeiro.
Costa do Sol (Sun Coast)

Búzios, Cabo Frio, Araruama, etc.

Sun, salt, blue sky and the wilderness of the ocean.

You start feeling the magic of the Sun Coast when you see the first windmill – a landmark of this region. Afterwards, these are hundreds of wonderful beaches and lagoons, one after the other. A perfect itinerary for those who like the sun, wind, sea, aquatic sports, beautiful people and good food. High quality restaurants and a lively night life can be found all through the Sun Coast.