



1. Welcome

Welcome to Lobito, a beautiful city of the Benguela Province of Angola for the first **International AFRICA Sustainable Waste Management Conference**, an event organized by the International Solid Waste Association (**ISWA**) together with the Association of Portuguese Sanitary and Environmental Engineering (**APESB**) and the Community of Portuguese Language Countries (**CPLP**) with the high sponsorship of the government of Angola and government of Benguela Province. It is the first time that an event in this field is organized by ISWA in Africa. We would encourage you to participate in the activities of the congress sending communications/papers related to the themes of the event as stated in the programme, sharing your experiences.

Is also an opportunity to the companies specialized in this sector to show their skills.

You can see more details in the website of the conference:

www.africawastecongress2012.org

Chairman of the Organizing Committee

Mário Russo



2. The Conference

Waste management is a major challenge in almost all communities, given the heterogeneity of the solid waste and its exponential growth. However, in developing countries, the problem becomes even more acute due to cultural and economic reasons, as it is the case of most countries of Africa. The problem is more serious when it comes to mega cities such as Luanda, Angola's capital, whose population has grown tremendously in recent decades due to the civil war that spread over the country and Luanda became the city with safety for thousands of Angolans from various parts of the country, fleeing from this war, settling mostly in the suburban belt of the capital.

It is estimated that Luanda has a population between 4.5 and 5 million inhabitants, which represents about 24% of the population of the country. The urban city was designed in colonial times for a population of 750 000 inhabitants, shows nowadays serious sanitation problems, with sewage running down the street in the suburban areas and the solid waste is part of the day to day life of the population. This outlook is shared by the population of many other cities, due to the exponential production of waste and few solutions offered. Most of the waste is deposited in the open dumps, near watercourses and in residential areas, aggravating problems of public health.

Emerges, therefore, a sector which should establish an appropriate technical solution, robust and affordable for the vast majority of the population from cities such as Luanda and others African cities, especially for the people that are living in urban peripheries.

In the recent past the sanitation and solid waste management was not a political priority. But, nowadays the overview of these problems is different and became a political priority for the government, not only in Angola, but in others African countries. Many millions of dollars are announced to implement integrated solid waste programs by Angolan government.

From what has been stated, we believe that an international conference, like this, can show solutions for proper waste management, from the simplest and robust solutions, even those that are more sophisticated, but also to demonstrate the application of each solution to the correct context. In fact, an audience of experts and local politicians, who will participate actively in the conference, will promote interesting exchange of experiences and technical discussion.

We encourage you to participate in the conference.

3. Venue

Angola is one of the most important countries of Africa located on the West coast of Southern Africa. Angola was under Portuguese colonial rule until November 11, 1975, date on which it became an independent nation. It extends over an area of 1 246 700 Km². The official language is the Portuguese.

The country is divided into 18 provinces, being Luanda the capital. With a total of 4 837 Km long borderline and very nice beaches. There are studies about the population of Angola that refers a total of 12 million inhabitants and others about 19 millions.

The economy of Angola is based in oil production. In fact, this sector makes up over 90% of the Country's exports. Angola is currently the second oil producer of Africa with 1 million b/d output, and it is expected that by next year it will overtake Nigeria, with a current output of 2.3 million b/d. Second to oil, diamonds are Angola's main export product.

Angola also enjoys a considerable agricultural potential having a climate, soil, and topography appropriate for modern and large scale agricultural production of a wide range of crops. Thus, the country's underground is immensely rich with minerals including oil, diamonds, gold, and iron ores. Furthermore, the country has an important hydropower, forest, and fishery potential.

Angola is a very expressive player in terms of political, military and economical terms in the Africa context, with much influence over others countries. There are governmental plans to recover infrastructures damaged by civil war, namely sanitation, and to construct new facilities. Many foreign enterprises are working there.

Lobito is an important city in the Angolan context. Located in the center of the country, is a very beautiful and touristic city, with wonderful beaches. Near the city, about 17 km, Benguela is the capital of the province, also a nice city. Both cities were improved related to accommodations and other touristic infrastructures due to the organization of the CAN 2009 (African Football championship) in Angola. Lobito is a vibrant place, excellent music and nightlife.

Enjoy Nature in **Lobito** with a rich coast nearby and national parks that offers a savannah landscape with typical African animals.



4. The Organizers



APESB is a non-profit, scientific and technical association founded in 1980, recognised as a corporate body of public interest since 1990. APESB is the Portuguese National Member of ISWA with extensive experience in organizing national and international conferences. Every two years holds a national conference on sanitation that is in the 14th edition (National Meeting on sanitation-ENASB) and another international conference about solid waste that is in the 7th edition (Technical International Seminars about Solid Waste). Also, in cooperation with the ABES (brazilian association of sanitary and environmental engineering), APESB organizes a Luso-Brazilian Congress of sanitary and environmental engineering (SILUBESA) every two years, alternately in Brazil and Portugal. The events in Portugal, take place in different cities. It should be noted that APESB was responsible for the organization of the ISWA World Congress 2009 in Lisbon. More information can be obtained at www.apesb.org.



Community of Portuguese Language Countries, CPLP is the intergovernmental organization for friendship among lusophone (Portuguese-speaking) nations where Portuguese is an official language. The Portuguese-speaking countries are home to more than 240 million people located across the globe. The CPLP nations have a combined area of about 10,772,000 square kilometers. The CPLP is a bloc in the process of construction and the societies of the eight member nations have little knowledge of each other. One of the features of the CPLP is that its members are linked by a common language and shared cultural features, which form a bridge among countries separated by great distances and on different continents. More information can be obtained at www.cplp.org.



ISWA, the International Solid Waste Association, is a non-profit organisation whose purpose it is to foster international sustainable waste management through scientific, economic and social means. The ISWA tries to achieve this by maintaining an international network to disseminate information and share experiences, as well as by developing training courses and organising meetings, seminars and conferences, such as the annual ISWA Congress. ISWA has 1,100 members in 64 countries. Further information about ISWA can be obtained at www.iswa.org.

5. Sponsors of the event

This event has the patronage of the **Government of Angola**, through the Ministry of Environment and its Minister, as well as local support from the **Government of Benguela Province** and the Municipalities of Lobito and Benguela. But has also, important support from companies of great renown.

Participation as a sponsor see conditions under 11- Sponsorships in this folder.

High sponsorship



República de Angola

Sponsors



6. Call for Abstracts

We invite technicians, researchers, operators, public officials and professionals in the waste sector to submit an extended abstract in English in order to participate in this ISWA International Waste Management Conference. Extended abstracts should include title, key-words, work objectives, work description, results and conclusions, the author's name, affiliation, and email address (about 2000 words + figures and references). Please indicate whether the abstracts submitted shall be for oral or poster presentation.

All abstracts will be considered by the organizing committee. After evaluation by the review committee, authors will be notified of the acceptance of their abstracts. Accepted contributions will be published in the proceedings of the Conference with an ISBN number.

Please take time to the following calendar of submissions:

- All abstracts must be submitted by **10 March 2012**.
- After evaluation by the review committee, authors will be notified of the acceptance of their abstracts by **10 of April 2012**.
- To the final acceptance of the paper/poster, it will be required the registration at the Conference of at least one of the authors. One of the authors will have a 20% reduced entry price to Conference.

Some papers will be selected for peer review in the world's leading waste science journal *Waste Management & Research* for publishing.

Abstracts are invited for the following themes/topics:

General Themes

A - Sustainable waste management	B - Climate Change
1 - Biological waste treatment	1 - Carbon Trading
2 - Communication and social issues	2 - Cleaning Development Mechanisms projects
3 - Collection and transport technologies	3 - Emissions of greenhouse Gases
4 - Waste and Public Health	4 - International Carbon Market
5 - Landfills	5 - Environmental Education
6 - Hazardous Waste Management	
7 - Waste from Petrol Industry	
8 - Waste to Energy	
9 - Special Packaging waste and Recycling	
10 - Policies and regulation	
11 - Construction and Demolition Waste	

7. Programme at a Glance

ISWA/APESB Africa Sustainable Waste Management Beacon Conference 2012				
LOBITO, ANGOLA 25 TO 28 JUNE				
	25 June	1th Day 26 June	2nd Day 27 June	3rd Day 28 June
9:30 - 10:30		<i>Open ceremony/ SESSÃO DE ABERTURA COM AS AUTORIDADES OFICIAIS</i>	Sanitary Landfills: project, construction and operation Construction and Demolition Waste Hazardous Waste Management	CPLP waste experiences Special Packaging and Recycling Biological treatment
10:30 - 11:00	Coffee Break			
11:00 - 12:30		<i>Waste management in Africa - Key lecture</i>	Sanitary Landfills: project, construction and operation Construction and Demolition Waste Hazardous Waste Management	CPLP waste experiences Special Packaging and Recycling Biological treatment
12.30-14.00	Almoço			
14.00-16.00		<i>Policy & Regulation</i> <i>Communications and social issues</i> Collection and transport technologies	Waste to Energy Climate Change <i>Waste from Petrol Industry</i>	<i>CPLP Report of waste success experiences</i> Public Health and waste Special Packaging and Recycling
16.00-16.30	Coffee Break			
	<i>Reception/ Recepção</i> <i>Registration and documentation</i> <i>Registo e entrega documentos</i>	<i>Policy & Regulation</i> <i>Communications and social issues</i> Collection and transport technologies	Waste to Energy Climate Change <i>Waste from Petrol Industry</i>	<i>Workshop: proposals for CPLP countries and cooperation</i> Case Studies
16:30-18:00	<i>Wellcome/ Boas vindas Oficiais</i>			<i>Recycling Case studies</i>

8. Registration

Participants who will be able to complete the advance registration process (before or on April 22) will enjoy lower costs and will be assured of being given all the conference materials upon their arrival, as presented in the table.

REGISTRATION FEES (€)		
CATEGORY	Early Bird Fee - until 22 April 2012	Normal Fee - from 23 April 2012
ISWA/APESB Member (*)		
High per capita income countries	640.00 €	700.00 €
Middle per capita income countries	480.00 €	550.00 €
Low per capita income countries	350.00 €	400.00 €
NON-ISWA Member		
High per capita income countries	740.00 €	820.00 €
Middle per capita income countries	550.00 €	610.00 €
Low per capita income countries	400.00 €	450.00 €
STUDENT (**)		
Student	200.00 €	250.00 €

(*) Including members from associations with agreement with APESB
(**) PhD Students have a 50% discount of ISWA/APESB member according the country

One of the authors of a paper/poster will have a special discount of 20% over the value of the registration fee.

See the per capita income countries in the map below.



High Income: ■

- Australia
- Austria
- Belgium
- Canada
- Denmark
- Finland
- France
- Germany
- Iceland
- Ireland
- Italy
- Japan
- Luxembourg
- Netherlands
- Norway
- Singapore
- Spain
- Sweden
- Switzerland
- United Kingdom
- United States

Middle Income: ■

- Bahamas
- Barbados
- Bermuda
- Brunei Darussalam
- Channel Islands
- Croatia
- Cuba
- Cyprus
- Czech Republic
- Equatorial Guinea
- Estonia
- French Polynesia
- Greece
- Greenland
- Hong Kong
- China
- Hungary
- Israel
- North Korea
- South Korea
- Latvia
- Libya
- Liechtenstein
- Lithuania
- Macao SAR
- Malta
- Monaco
- Netherlands Antilles
- New Caledonia
- New Zealand
- Oman
- Poland
- Portugal
- Puerto Rico
- Slovakia
- Slovenia
- Saudi Arabia
- Trinidad and Tobago
- United Arab Emirates
- Venezuela

Low Income: ■

- Afghanistan
- Albania
- Algeria
- Andorra
- Angola
- Argentina
- Armenia
- Azerbaijan
- Bangladesh
- Belarus
- Belize
- Benin
- Bhutan
- Bolivia
- Bosnia and Herzegovina
- Botswana
- Brazil
- Bulgaria
- Burkina Faso
- Burma
- Burundi
- Cambodia
- Cameroon
- Cape Verde
- Central African Republic
- Chad
- Chile
- Colombia
- Comoros
- Costa Rica
- Cote d'Ivoire
- Democratic Republic of the Congo
- Djibouti
- Dominica
- Dominican Republic
- Ecuador
- Egypt
- Arab Rep
- El Salvador
- Eritrea
- Lesotho
- Liberia
- Macedonia
- FYR
- Madagascar
- Malawi
- Malaysia
- Maldives
- Mali
- Marshall Islands
- Mauritania
- Mauritius
- Mexico
- Moldova
- Mongolia
- Montenegro
- Morocco
- Mozambique
- Namibia
- Nepal
- Nicaragua
- Niger
- Nigeria
- Pakistan
- Palau
- Panama
- Papua New Guinea
- Paraguay
- Peru
- Philippines
- Romania
- Republic of the Congo
- Russia
- Rwanda
- Samoa
- Senegal
- Serbia
- Seychelles
- Sierra Leone
- Solomon Islands

- Fiji
- Gabon
- Gambia
- Georgia
- Ghana
- Grenada
- Guatemala
- Guinea
- Guinea-Bissau
- Guyana
- Honduras
- India
- Indonesia
- Iran
- Islamic Rep
- Iraq
- Jamaica
- Jordan
- Kazakhstan
- Kenya
- Kiribati
- Kosovo
- Kyrgyzstan
- Laos
- Lebanon

- South Africa
- Sri Lanka
- St. Lucia
- Sudan
- Suriname
- Swaziland
- Syria
- Arab Republic
- Tajikistan
- Tanzania
- Thailand
- Timor-Leste
- Togo
- Tonga
- Tunisia
- Turkey
- Turkmenistan
- Uganda
- Ukraine
- Uruguay
- Uzbekistan
- Vanuatu
- Vietnam
- Yemen
- Zambia
- Zimbabwe

Registration Form

All registrations and submission of abstracts must be done directly at the site of the conference.

The submission of paper don't implies the registration and payment until the reception of the evaluation with acceptance of the paper.

Access the site www.africawastecongress2012.org

9. Contacts

Technical secretariat of the congress: Carla Galier

Conference Secretariat: APESB, Av. do Brasil, n.º 101 (LNEC-DHA-NES), 1700-066 Lisboa, PORTUGAL

Tel: +351 218 443 849; **Fax:** +351 21 844 30 48; **E-mail:** apesb@apesb.org

10. Sponsorship

In order to enjoy an advantageous position to promote your company the Organization proposes a sponsorship according the objectives of your company. Especially in Angola, one of the most important and rich countries in Africa with an economy growing up more than 9% per year and planning to invest in sanitation infrastructures, namely in the solid waste sector.

The total amount of the sponsorship can be invoiced in two parcels of equal amounts for 2011 and 2012, in order to reduce the impact on the annual budget of your company.

See the table below and choose your place and be a partner of excellence for this event. Do not hesitate to contact the Technical Secretariat Organizing Committee: apesb@apesb.org .

ISWA/APESB AFRICA SUSTAINABLE WASTE MANAGEMENT BEACON CONFERENCE LOBITO 25 - 28 JUNE 2012 INTERNATIONAL SPONSORSHIP PACKAGES				
	Platinum	Gold	Silver	Bronze
Price (€)	50 000 €	25 000 €	15 000 €	5 000 €
Exhibition space (booths 3x3 m)	4	2	1	
Registrations of delegates	8	6	4	2
Welcome or congratulatory speech by President of the Organization or Board	√	√	-	-
Take part in organizing committee	√	√	-	-
Participating at ISWA working group meeting	√	√	-	-
Logo on Congress website	√	√	√	√
VIP invitations for opening and closing	8	6	4	2
Advertisement in Congress program book	√	√	√	√
Logo on recognition placards	√	-	-	-
Logo on dinner menu	√	√	√	-
Nominate speaker	√	-	-	-
Gala dinner (tickets)	6	3	2	1

11. Committees

Honour Committee

(waiting for approval /acceptation)

Scientific and Programme Committee

Mário Russo	IPVC, APESB, [Chairman], Portugal
Jeff Cooper	ISWA, President, United Kingdom
Antonis Mavropoulos	ISWA, STC, Chair, Greece
Afonso Lobato de Faria	AdP, CEO, Portugal
Anabela Leitão	University Agostinho Neto, Angola
Angela Nobrega Fonti	Comlurb, CEO, RJ, Brazil
António Albuquerque	University of Beira Interior, APESB, Portugal
Antunes Pereira	University of Aveiro, Portugal
Arlindo Matos	University of Aveiro, Grapesb, Portugal
Carlos Martins	Polytechnic Institute of Lisbon, EGF, Portugal
Derek Greedy	ISWA LWG, Chair, UK
Domingos Saraiva	EGSRA, Tratalixo, President, Portugal
Dulce Álvaro Pássaro	Ex- Environmental Minister, INAG, Portugal
Enzo Favoino	ISWA WGBT, Chair, Italy
Felipe Macias Vasquez	University of Santiago de Compostela, Spain
Fernando Castro	University of Minho, CVR, Portugal
Fernando Thomé Jucá	University of Pernambuco, Brazil
Fernando Leite	LIPOR, Portugal
Fernando Martins	Sotkon, Portugal
Fernando Santana	New University of Lisbon, Portugal
Graça Lopes	Polytechnic Institute of Lisbon, APESB, Portugal
Gregory Vogt	SCS Engineers, USA
Julian Uriarte	Ategrus, Spain
José Penido	Web Resol, Brazil
José Manuel P. Vieira	University of Minho, APESB, Portugal
Luis Marinheiro	GRAPESB, Portugal
Mauro Gandolla	ITFS, Lausanne, Swiss
Nídia Caetano	Polytechnic Institute of Porto, GRAPESB, Portugal
Mercês Ferreira	VN Gaia Municipality, Portugal
Paulo Ramísio	University of Minho, APESB, Portugal
Susete Dias	IST, Technical University of Lisbon, Portugal
Valdir Shalch	USP, University of S. Paulo, Brazil

International Organizing Committee

Mário Russo	IPVC, APESB, [Chairman], Portugal
Domingos Pereira	CPLP Executive Secretary, Bissau Guinea
Dulce Álvaro Pássaro	Ex- Environmental Minister, INAG, Portugal
António Matos	Ambiáfrica, Angola
F. Martins Fernandes	SOTKON, Portugal
Helder Lucas	Angola Ambassador of CPLP, Angola
Kamia de Carvalho	Environmental National Director, Angola
António J Monteiro	IST, APESB, Portugal
João Feijó	APESB, Portugal
Derek Greedy	ISWA LWG, Chair, UK
José Manuel P. Vieira	University of Minho, APESB, Portugal
Domingos Saraiva	EGSRA, Tratalixo, President, Portugal
Fernando Jucá	Federal University of Pernambuco, Brazil
Arnaldo Lago de Carvalho	Propetrol, Serviços Petrolíferos, Angola
Fernando Leite	LIPOR, Portugal
Anabela Leitão	University Agostinho Neto (UAN), Angola
Graça Lopes	ISEL, APESB, Portugal
Luis Marinheiro	GRAPESB, Portugal
Manuel C. Lapão	CPLP Cooperation Director, Portugal
Zacarias Kamuenho	Environmental Director, Benguela, Angola
Nídia Caetano	ISEP, Portugal
Paulo Ramísio	UM, APESB, Portugal
Susete Dias	IST, GRAPESB, Portugal
Carlos Martins	ISEL, EGF, Portugal
António Albuquerque	UBI, APESB, Portugal
Ana Loureiro	Valorsul, Portugal
Paula Mendes	LIPOR, GRAPESB, Portugal
Vincenzo Piepoli	Vista Waste, APESB, Angola

Local Organizing Committee

Anabela Leitão	University Agostinho Neto (UAN), Angola
António Matos	Ambiáfrica, Angola
Amaro Ricardo	President of Lobito Municipality
Kamia de Carvalho	Environmental National Director, Angola
Zacarias Kamuenho	Environmental Director, Benguela, Angola
Vincenzo Piepoli	Vista Waste, Angola
Augusto Fazenda	UAN, Angola
Benjamim Caluvi	UAN, Angola
Caetano Maria	UAN, Angola
Novais José	UAN, Angola

APESB – Portuguese Association of Sanitary and Environmental Engineering

AdP – Águas de Portugal E.P./ Waters of Portugal, Public Company

EGSRA – Association of Solid Waste Management Companies

UAN – University Agostinho Neto, Angola

UA – University of Aveiro

UBI – University of Beira Interior

UM – University of Minho, Braga

IPVC – Polytechnic Institute of Viana do Castelo

ISEL – Institute of Lisbon Engineering

ISEP – Institute of Porto Engineering

IST – Technical University of Lisbon