## PERCEPTION OF SUITABILITY OF LANDSCAPE FEATURES OF THE LAGOS LAGOON FOR TOURISM BY ITS USERS AND USERS OF LAGOS COASTAL TOURISM VENUES

# Uduma-Olugu, N.<sup>1</sup>, Okedele, O. S.<sup>1</sup>; Adebamowo, M.<sup>1</sup>; Obiefuna, J. N.<sup>1</sup>

<sup>1</sup> Department of Architecture, University of Lagos, Lagos

Abstract: The Lagos lagoon is a major geographical feature in Lagos Metropolis and is the largest of the network of lagoons that stretch from the Republic of Benin through to the Nigerian Niger Delta. Some parts of the Lagos lagoon waterfront has degenerated into a slum with non-distinctive housing, mainly shanties at various points, wood processing, sand dredging, markets and commercial fishing activities. Water-based tourism is a proven revenue earner globally, usually providing revenue for the government and a source of enjoyment, employment and recreation to the residents and visitors alike. The tourism potentials of the lagoon remain largely untapped. To determine the place of landscape features of the Lagos Lagoon in its suitability for tourism, the paper evaluates its landscape characteristics and compares the perception of users of water-based recreation destinations along the its waterfront with those of users of similar tourist attractions along the Lagos coast. The aim of the study is to answer questions of landscape perception and assessment of the area and to identify other factors which may be of relevance to its tourism development. Using structured questionnaires with pictures of the landscape features of the lagoon, field survey and interviews, the study identified the communities, problems, and factors influencing tourism at three venues on the lagoon waterfront and three water tourism venues along the Lagos coast. Results show that the landscape characteristics of the lagoon have a very significant effect on tourism in the area. It also identified the major factors influencing the tourism development of the Lagos Lagoon. The outcome of the research will be of benefit to property owners in the area, architects, landscape architects, tourists, visitors, industry practitioners and policy makers in determining appropriate facilities and land-use planning options in developing the natural resource.

Keywords: Landscape assessment and perception, tourism, water-based recreation, suitability and Lagos Lagoon

#### 1.0 Introduction

Due to the location of Lagos State – with Badagry on the west, Lekki in the east, and Lagos Lagoon with an outlet to the sea, Lagos has been the gateway for European contact with the Nigerians on the coast from colonial times (Oshundeyi and Babarinde, 2003). Usually described as the state of aquatic splendor, Metropolitan Lagos is replete with ubiquitous creeks, bays, lagoons, coastlines and breath-taking scenic views; since it consists mostly of water, it therefore has a high capability to benefit from water tourism. There is however, insufficient emphasis on water as a tool for recreation and tourism in Lagos. Instead, water-based sites are largely neglected and they lie fallow and underutilized (Uduma-Olugu & Oduwaye, 2010). The existing developed waterfront sites in Lagos do not appear to have adequate infrastructure, nor do they present water-use in ways that are sufficiently appealing to tourists (Uduma-Olugu & Iyagba, 2009b; Uduma-Olugu & Onukwube, 2012).

A place's landscape characteristics determines its character and subsequently, its uses (Gnoth, 1997; Swaffield, 1999).The landscape features and characteristics of the Lagos Lagoon are key to determining the usage of the lagoon. Apart from water which is its main feature, its vegetation, land form, land cover, ecology, human settlement and general scenic quality are major assets in land use and management (Daniel & Boster, 1976). All these affect its usefulness for tourism or recreation. One of the key indicators of a place's character, is its landscape - comprising not only of the landcover and landscape quality, but also of its very essence which can be captured when the landscape is assessed and evaluated. using pre-determined parameters (Swaffield, 1999). The uniqueness or otherwise of a place can influence tourism. Traditionally, waterbased resources, either coastlines or lakes, are important tourism resources (Gunn, 2002). Globally, tourism has been identified as a major revenue source and continues to grow in popularity. In this blooming tourism industry, the Americans, Europeans and Asians are far ahead of Africa (UNWTO, 2011).

Lagoons are fragile ecosystems susceptible to pollution from municipal, industrial and agricultural runoff and the Lagos Lagoon specifically, is under intensified pressure from pollution (Nwankwo, 2004). Major sources of pollution in the lagoon have been identified as: the deposition of raw sewage, wood shaving, refuse and other domestic wastes, sand and gravel extraction, dredging, industrial waste, petroleum hydrocarbons and waste oil discharge among others (Nwilo, Peters & Badejo, 2009; Okoye et al., 2010). With this level of pollution and misuse of the natural asset and landscape resources of the Lagos Lagoon, it is inhibited from benefiting from more laudable uses such as tourism and recreation. A great tourism potential continues to exist untapped in the Lagos Lagoon (Uluocha, 1999).

Tourism along the coast receives more attention and is better developed than on the lagoon as attested to the popularity of places like Bar Beach, Kuramo beach and Lekki/ Maiyegun Beach (Oshundeyi and Babarinde, 2003). Adejumo (2010) explored the economic impact of rural coastal beach tourism of Eleko beach. Some of the problems he identified as plaguing the water tourism industry include; lack of tourism product development, lack of government support, poor social capital, lack of financial resources and lack of human resources. Cultural issues were examined by Aina and Babatola (2010) in their study of its effect on a sustainable tourism development strategy for rural areas. Studies by Uduma-Olugu & Onukwube (2012) explored the potentials of tourism in some of these coastal tourism venues and highlighted the deficiencies in the provided facilities.

#### 2.0 Landscape and Human Perception

The development of methods for systematically integrating aesthetic values in ecological and landuse decision making began in the mid-1960s.

Ndubuisi (2002) posits that K. Craik. L. Leopld, B. Linton, E. Shafer, J. Wohwill and E. Zube in the United States and K. Fines and his colleagues in Britain conducted pioneering studies in landscape perception and assessment during the late sixties. Zube's 1966 visual-assessment study on Nantucket Island and his 1968 resource-assessment study of the US Virgin Islands provided significant methodological directives for the assessment and integration of visual resources in ecological planning. Also notable in this period, was Linton's work which developed a framework in 1968 for describing and analyzing visual elements in large forested landscapes (Ndubuisi, 2002).

The landscape functions comprise the current and potential ability of the landscape to fulfil the human needs regarding the natural resources and the landscape experience. The degree of human impact and the visibility in the landscape can be measured by visual indicators as relief, vegetation, land use, structural elements or lines of sight. But characteristics such as harmony and scenic beauty that depend on the perceptual process the features of the landscape evoke in the human viewer should also be assessed (Daniel, 2001). The Scenic Beauty Model (SBME) which considers the relevance of physical features in evaluating a landscape (Daniel & Boster, 1976). Daniel et al (1976) updated by Daniel (2001) and Franco et al. (2003), posited that scenic beauty judgments depend jointly on the perceived properties of the landscape and the judgmental criteria of the observer.

Landscape assessment research has primarily focused on the visual properties of the land area under study. Consequently, the dimension most often measured is the scenic quality of a given area (Zube 1975). This variable also has been described as scenic beauty (Daniel and Boster, 1976) and landscape preference (Buhyoff and Wellman, 1978). Psychophysical landscape assessments typically represent the experiences of visitors to the area under study by means of color slides. Criticism has focused on whether human reactions to areas represented by photographs are valid indicators of reactions that would occur if people were to visit the areas and view them directly. However, when comparing between perceptual data gathered using color slide depictions of landscapes and data obtained at the actual sites where those slide photographs were taken, a very close relationship between the two has been established (Daniel and Boster, 1976; Malm et al., 1981). Correlations between photo-based and direct on-site assessments have been found to be .80

or greater (Daniel, 1990). Landscape assessments utilizing psychophysical methodology have been obtained using Likert-type rating scales (Daniel and Boster, 1976), rank orders (Shafer and Brush, 1977) etc.

#### 3.0 Methodology

A desktop study was done to identify the landscape resources in the area, and verified and upgraded by personal observation (via a field survey where the existing features were recorded). The motivation for selection of a destination were identified from the literature review is based on how the potential tourist perceives the location, as well as word-of-mouth and previous experience of the venue. These were covered by questions which dealt with facilities and factors as well as how a person feels at tourism venues. The various elements that constitute the landscape characteristics of the Lagos lagoon influence tourism differently and their effects were measured from the questionnaire in a table that listed them and used a likert scale to measure their level of influence.

The questionnaires consisted of a combination of types of questions, such as multiple choice, Likert

scale, and closed and open-ended questions, relating to respondents' perceptions. Preferences for five mapped landscape categories were compared with expert ratings of the same landscapes. The photo questionnaire presented 20 black and white photographs showing vegetation and landforms characteristic of the study site. Photographic sites were selected in consultation with botanical and landscape experts to represent a range of values related to dominant species and degree of human modification of landscape. A bigger, coloured version of the same pictures accompanied the questionnaires since the black and white pictures shown in the questionnaires were too small and insufficiently legible.

#### 4.0 Findings

The study locations consisted of the three waterbased recreational spots within the study area of the Lagos Lagoon (Unilag waterfront, Lekki Phasel Club House – The Pavilion and Origin zoo and jetty, Ipakodo, Ikorodu) and three coastal water-based tourist destinations on the Lagos coast in close proximity to Lagos (Bar Beach, Alpha Beach and Maiyegun/Lekki Beach).

Tuble 411 Dulling	if y of Study Locations			
Variable	Characteristics	Frequency	%	Total
Place	Bar Beach	132	31.3	
	Lekki Phase1 Club House – The Pavilion	55	13.0	
	Alpha Beach	30	7.1	
	Maiyegun/Lekki Beach	27	6.4	
	Unilag Waterfront	137	32.5	
	Origin Zoo Jetty, Ikorodu	41	9.7	422

 Table 4.1: Summary of Study Locations

Table 4.1 indicates the locations surveyed – the highest number of respondents came from Unilag waterfront – 32.5% (137) and the least from Maiyegun/Lekki Beach 6.4% (27).

#### **Reliability Analysis of Demographic Variables**

T	able 4.2: Reliability Sta	tistics
	Cronbach's Alpha	
Cronbach's	Based on	
Alpha	Standardized Items	N of Items
.848	.849	59

From Table 4.2, the test of reliability of questionnaire based on the standardized Cronbach's Alpha is obtained as 0.849 (84.9%). The result suggested that the instrument of evaluation (questionnaire) is highly reliable judging from the fact that 84.9% > 70%. Also that there is an internal consistency of the items in the instrument (questionnaire) used for data collection.

Table 4.3: ANOVA

		Sum of Squares	Df	Mean Square	F	Sig
Between People		590.954	105	5.628		
Within People	Between Items	1474.834	58	25.428	18.445	.000
	Residual	8395.641	6090	1.379		
	Total	9870.475	6148	1.605		
Total		10461.428	6253	1.673		

Grand Mean = 3.32

From the ANOVA test, Since the P1-value = 0.000 < 0.05 significant level, the reliability of the instrument is significant. This further validates the adequacy of the instrument.

#### 4.2 Socio-Economic Demographics of **Respondents**

Gender analysis of the respondents from Table 4.4 show that more males 65.4% (276) than females 34.6% (146) responded. The average age of respondents was 28.3 years, out of which the highest number of respondents were among the youth. The implication is that people that visit such destinations are mostly young and male. Respondents that fall under these age brackets are believed to have a lot of energy, dynamic and vibrant and are more likely to

be engaged in active rather than passive recreation. There was a high incidence of literate people among the respondents as graduates with BSc. Or MSc. had the highest number - 48.6% (205) while respondents with primary school education were the fewest -6.4%(27). This implies that more literate people appear to appreciate water-based tourism more that those with less education. The mean annual income of respondents was relatively high (N4,282,934), indicating that it is mostly middle income earners that visit the destinations.

Variable	Characteristics	Frequency	%	Mean	Total
Gender	Male	276	65.4		
	Female	146	34.6		422
Age	(Below 16) Years	6	1.4	28.3 Yrs	
	(1630) Years	284	67.3		
	(3145) Years	112	26.5		
	(4660) Years	20	4.7		422
<b>Employment Status</b>	Retired	8	1.9		
	Office Worker	192	45.5		
	Student	92	21.8		
	Site Worker	11	2.6		
	Business	98	23.2		
	Educator	2	.5		
	Unemployed	19	4.5		422
Marital Status	Married	171	40.5		
	Divorced/Separated	8	1.9		
	Widowed	3	.7		
	Unmarried	240	56.9		422
Educational	Primary school	27	6.4		
Qualification					
	Secondary school	57	13.5		
	Technical school /Polytechnic	49	11.6		
	Graduate (e.g. B.Sc., B.A)	205	48.6		
	Post Graduate (e.g. M.sc or PhD)	84	19.9		422
Average Annual	Low income - less than N500,000 per	85	25.4	N4,282,934	
Income	annum				
	Middle income - N500,000 - N10,000,000	232	69.5		
	per annum				
	High income - more than N10,000,000 per	17	5.1		334
	annum				
Place of Residence	Lagos Metropolis	280	66.4		

**Table 4.4: Summary of Socio-Demographic Variables** 

	Other town in Lagos State	71	16.8	
	Other State in Nigeria	56	13.3	
	Outside Nigeria	15	3.6	422
Nationality	Nigerian	414	98.1	
·	European	5	1.2	
	North American	1	.2	
	Middle East	1	.2	
	Other African Countries	1	.2	422

The lowest percent was the group that earn more than N10,000,000 per annum -5.1% (17). This is not surprising as most of such people are likely to travel out of the country than visit the local water tourism venues. Most of the respondents live in Lagos metropolis 66.4% (280), the tourists – coming from outside Lagos State and other countries made up the balance. This result was expected as the area does not

seem to have a high traffic of tourists which is what necessitated the study in the first place. The Nationality of the respondents was also not surprising as 98.1% were Nigerians. This shows that international tourism is not high at the venues; rather, domestic tourism is what is obtainable at some level on the Lagoon.

4.3 Ranking of Respondents' Perception of the Landscape characteristics of the Lagos Lagoon



Figure 4.1: Showing areas where the pictures were taken along the Lagos Lagoon Waterfront



Figure 4.2: Totally Urban Pictures

Table 4.5:	Ranking	Of Landsca	pe Perception	n of the Lagos	Lagoon:	Totally ]	Urban
1 abic 4.5.	Manning	Of Lanusca	pe i ci cepuoi	i or the Lagos	Lagoon.	Totany	UI Dan

Picture	LB	%	Α	%	FB	%	В	%	EB	%	Tota 1	Scale	Respons e	%
												Mean	Mean	
Ranking of Picture: A	23	6.5	71	20.1	83	23.4	116	32.8	61	17.2	354	3.0	3.3	66
Ranking of Picture: B	33	9.3	76	21.5	96	27.2	110	31.2	38	10.8	353	3.0	3.1	62
Ranking of Picture: C	26	7.4	53	15.1	84	23.9	101	28.8	87	24.8	351	3.0	3.5	70
Ranking of Picture: D	28	8.0	68	19.3	97	27.6	107	30.4	52	14.8	352	3.0	3.2	64
Ranking of Picture: E	35	9.9	68	19.2	95	26.8	100	28.2	57	16.1	355	3.0	3.2	64
Total	145	8.2 2	336	19.04	455	25.78	534	30.28	295	16.7 4		3.0	3.3	66

Ranking of Landscape Perception of the Lagos Lagoon: LB (Least Beautiful), a (Average), FB (Fairly Beautiful), B (Beautiful), EB (Extremely Beautiful)

Table 4.5 shows the ranking of the totally urban aspects. In the first set of pictures (Figure 4.2) comprising shots of totally urban aspects of the lagoon. Results show that they were all considered

beautiful with picture C (showing a high-rise luxury building) having the highest score of 70. Picture C also had the highest score in the entire 20 pictures ranked by the respondents.



F { } G{ } Figure 4.3: Landscape Elements Pictures



H { }



I{ }

J{ }

Picture	LB	%	A	%	FB	%	В	%	EB	%	Tota 1	Scale	Respons	%
												Mean	Mean	
Ranking of Picture: F	29	8.1	68	19.0	114	31.8	82	22.9	65	18.2	358	3.0	3.2	64
Ranking of Picture: G	36	10.2	81	22.9	82	23.2	98	27.8	56	15.9	353	3.0	3.0	64
Ranking of Picture: H	45	12.8	97	27.6	66	18.8	103	29.3	41	11.6	352	3.0	3.0	60
Ranking of Picture: I	49	13.9	69	16.5	90	25.5	107	30.3	38	10.8	353	3.0	3.0	60
Ranking of Picture: J	54	15.3	78	22.2	84	23.9	104	29.5	32	9.1	352	3.0	2.9	58
Total	213	12.06	393	22.24	436	24.6 4	494	27.96	232	13.1 2		3.0	3.1	62

Table 4.6: Ranking Of Landscape Perception of the Lagos Lagoon: Landscape Elements

Ranking of Landscape Perception of the Lagos Lagoon: LB (Least Beautiful), a (Average), FB (Fairly Beautiful), B (Beautiful), EB (Extremely Beautiful)

In the second set of pictures (Figure 4.3) comprising shots of different landscape elements of the lagoon, results show that they were considered beautiful except for picture J which had a score of 2.9.



L{ } K { } Figure 4.4: Open Spaces Pictures





0 { }

### Table 4.7: Ranking Of Landscape Perception of the Lagos Lagoon: Open Spaces

Picture	LB	%	Α	%	FB	%	В	%	EB	%	Tota	Scale	Respons	%
											1		e	
												Mean		
													Mean	
Ranking	63	17.2	85	23.2	81	22.1	98	26.7	40	10.9	367	3.0	2.9	58
of Picture:														
K														
Ranking	63	17.1	89	24.1	64	17.3	109	29.5	44	11.9	369	3.0	3.0	60
of Picture:														
L														
Ranking	59	16.0	82	22.3	81	22.0	115	31.3	31	8.4	368	3.0	2.9	58
of Picture:														
Μ														
Ranking	51	14.1	81	22.4	79	21.9	121	33.5	29	8.0	361	3.0	3.0	60
of Picture:														
Ν														

Ranking of Picture:	52	14.4	65	18.0	93	25.8	98	27.1	53	14.7	361	3.0	3.1	62
Total	288	15.76	402	22	398	21.82	541	29.62	197	10.7 8		3.0	3.0	60

Ranking of Landscape Perception of the Lagos Lagoon: LB (Least Beautiful), a (Average), FB (Fairly Beautiful), B (Beautiful), EB (Extremely Beautiful)

In the third set of pictures (Figure 4.4) comprising shots of open spaces around the lagoon, the scores were generally low. Results showed that they were considered beautiful except for Pictures K (showing fishing circles) and picture M (showing mixed vegetation) which jointly had the lowest score of 58, as the least liked pictures in the group.



P { } Q{ } R { } Figure 4.5: Human and Social activities Pictures

S{ }

Τ{	}

Table 4.8: Ranking	Of Landscape	e Perception of the	he Lagos Lagoon:	Human and Social Activities
--------------------	--------------	---------------------	------------------	-----------------------------

Picture	LB	%	Α	%	FB	%	B	%	EB	%	Tota	Scale	Respons	%
											1		e	
												Mean		
													Mean	
Ranking of Picture: P	79	22.4	72	20.4	69	19.5	95	28.9	38	10.8	353	3.0	2.8	56
Ranking of Picture: Q	58	16.4	79	22.4	81	22.9	97	27.5	38	10.8	353	3.0	2.9	58
Ranking of Picture: R	64	18.5	91	26.3	65	18.8	89	25.7	37	10.7	346	3.0	2.8	56
Ranking of Picture: S	103	29.5	73	20.9	79	22.6	68	19.5	26	7.4	349	3.0	2.5	50
Ranking of Picture: T	68	19.6	52	15.0	88	25.4	79	22.8	60	17.3	347	3.0	3.0	60
Total	372	21.28	367	21	382	21.84	428	24.48	199	11.4		3.0	2.8	56

Ranking of Landscape Perception of the Lagos Lagoon: LB (Least Beautiful), a (Average), FB (Fairly Beautiful), B (Beautiful), EB (Extremely Beautiful)

The pictures (Figure 4.5) comprising shots of human and social activities around the lagoon had the lowest scores in the entire group of pictures. The picture with the lowest score in this group was picture S (showing slum housing on stilts) which was least liked pictures in the group and also among the entire 20 pictures ranked by the respondents. 4.4. Factors most significant in determining the impact of landscape characteristics of the Lagos lagoon waterfront on tourism



Figure 4.6: Chart of Mean Response of Landscape Characteristics of the Lagos Lagoon Waterfront on Tourism

Figure 4.6 shows the six factors considered important regarding the effect of the landscape characteristics. The landscape factor considered most significant is the clearance of the slum housing and similar blights on the shores of the lagoon. Handling the problem areas along the lagoon shores will help in influencing its acceptability for tourism. The issue of enhancing the physical properties of the lagoon needs to be addressed also as the water is coloured, smelly and polluted (Nwankwo, 2004; Onyema, 2009) as this was the second most important factor. This makes it unsuitable for most water tourism activities as visitors cannot swim in it, nor have direct access to it for hygienic reasons. The fifth factor considered relevant by the respondents, is the development of parks and open spaces for recreation along the waterfront. Currently, there are very few recreational open spaces or parks directly abutting the shores of the lagoon. Such places would afford the general public an opportunity to directly interact with the lagoon.

#### 5. DISCUSSIONS/CONCLUSION

The results indicate that tourists and users of waterbased recreational showed a preference of well developed parts of the Lagos Lagoon waterfront over the more natural landscape which is in line with previous findings globally (Thayer, 1989; Nassauer, 1995). The perception of the Lagos Lagoon as a tourism resource was generally low as most responded negatively to the use of the Lagoon for tourism, preferring rather the option of its use for urban agriculture and urban residential waterfront development. To a large extent it indicates that much work needs to be done in bringing the standards of the facilities and infrastructures of the lagoon to more acceptable levels as well as the enlightenment of the public about the benefits and components of tourism to make it more acceptable. One of the very important outcome of the research is the opinion of the respondents that the most important factor that is a deterrent to tourism use of the lagoon especially as regards its landscape, is the existence of the slums and similar blights along the lagoonal shores. These, along with the issue of water pollution, ranked highest as critically impacting the tourism potential of the Lagos Lagoon. This was also reiterated by the choice of the slum as the worst picture among the twenty pictures shown to the respondents to rank.

#### REFERENCES

- Adejumo, O. T., (2010). Eleko rural beach initiative: Maximizing economic benefit of domestic tourism destination in littoral Lagos community. Urban and Regional Planning Review, 2 (1&2), 91-98.
- Aina, O. C. & Babatola O. (2010). Cultural Tourism: A sustainable development strategy for Nigeria's rural area. Journal of Geography, Environment and Planning. Pp.66-72.
- Buhyoff, G. J., & Wellman, J. D. (1978). Landscape architect's interpretation of people's landscape for visual landscape dimensions. *Journal of Environmental Management* 6: 255-262.
- Daniel T. C., & Boster, R. S. (1976). Measuring landscape aesthetics: The scenic beauty estimation method. USDA Forest Service, Research Paper RM- 167. Ft. Collins, CO: USDA Forest Service, Rocky Mountain Forest and Range Experiment Station.
- Daniel, T. C. (2001). Whither scenic beauty? Visual landscape quality assessment in the 21<sup>st</sup> century. Landscape and Urban Planning, 54(1-4), 267-281.
- Franco, D., Franco D., Mannino, I & Zanetto, G. (2003). The impact of agroforestry networks on scenic beauty estimation; The role of a landscape ecological network on a socio-cultural process. *Landscape and Urban Planning*, 62, 119-138.
- Gnoth, J. (1997). Tourism motivation and expectation formation.

Annals of Tourism Research, 24 (2), 283-304.

Gunn, C. A. (2002). Tourism planning. New York: Routledge.

- Malm, W. C., Kelley, K., Molenar, J. & Daniel, T. C. (1981). Human perception of visual air quality (uniform haze). Atmospheric Environment 15:1875-1890.
- Nassauer, J. I. (1995). Messy ecosystems, orderly frames. Landscape Journal, 14(2), 161-169.
- Ndubuisi, F. (2002). *Ecological planning: A historical and comparative synthesis.* Baltimore and London: John Hopkins University Press.
- Nwankwo, D. I. (2004). The microalgae: Our indispensible allies in aquatic monitoring and biodiversity sustainability. University of Lagos Press. Inaugural lecture series.44pp.
- Nwilo, P. C., Peters, K. O. & Badejo, O. T. (2009). Development of a Lagos Lagoon information System. *Environmental Review*, 3 (2), 403-408.
- Okoye, C. O., Onwuka S. U., & Obiakor, M. O. (2010). Pollution survey in the Lagos Lagoon and its environmental consequences: A review. *Tropical Built Environment*, 1 (1), 41-54.
- Oshundeyi, O. A., & Babarinde, O. T. (2003). Tourism in Lagos State. In Ajetunmobi, R. (Ed), *The Evolution and development of Lagos State*, Lagos: A-Triad Associates. pp 260-285.
- Shafer, E. L., & Brush, R. O. (1977). How to measure preferences for photographs of natural landscapes. *Landscape Planning* 4:237-256.

- Swaffield, S. (1999). A framework for landscape assessment. Landscape Review, 5(1), 45-51.
- Thayer, R. L. (1989). The experience of sustainable landscapes. Landscape Journal, 8:101-110.
- Uduma-Olugu, N. & Oduwaye, L. (2010). The regeneration of Lagos lagoon waterfront for recreation and tourism. REAL CORP 2010, 15<sup>th</sup> International Conference Proceedings held at Vienna 18<sup>th</sup> – 20<sup>th</sup> May, 2010. pp 759-764.
- Uduma-Olugu, N. & Onukwube, H. N. (2012). Exploring the coastal tourism potentials of Lagos. *Journal of Sustainable Development*, 5(7), 156-165.
- Uduma-Olugu, N., & Iyagba, R. (2009b). Comparative analysis of factors affecting water tourism patronage and potentials within the built environment in Nigeria and Ghana. *International Journal of Culture and Tourism Research*, 2(1), 91-105.
- Uluocha, N. O. (1999). Mapping for integrated management of tourism resources in Lagos State. In Balogun, O. Y. and Soneye, A. S. O. (Eds), *Cartography in the service* of government, Lagos: The Nigerian Cartographic Association. pp 71-82.
- United Nations World Tourism Organisation (2011). Compendium of Tourism statistics 2005 - 2009. Retrieved February 3, 2012, from, http://www.e-unwto.org.
- Zube, E.H., Brush, R.O. & Fabos, J. Gy. (Eds), (1975). Landscape Assessment: Values, Perceptions and Resources. Dowden, Hutchinson and Ross, Stroudsburg, PA, 367 pp.