

Community Art Training Centre **ALEXANDRA**

By G. Haas

Mentor: Professor 'Ora Joubert

Submitted in fulfilment of part of the requirements of the degree of Magister in Architecture (Professional) in the Faculty of Engineering, the Built Environment and Information Technology, University of Pretoria, Pretoria, November 2005.

It seems that Architecture has a more profound and crucial influence on people's daily lives than many other professions. In measuring its importance, one need only imagine the negative consequences of a badly designed building, space or any other architectural component in order to understand the significance of good design on people. Architecture deals with aspects of human life, and in order to be effective in fulfilling its purpose, it is duty bound to understand the psychology which drives human behaviour.

The thoughts behind the concept of the project, which will be described further on, try to combine thinkers' thoughts from different professions on which some Architectural concepts rely.

In the proposed project, I will attempt to integrate the "Hierarchy of Needs" as described by Maslow, and to be assisted by the philosophy of the "Everyday Life" as described by Lefebvre.

In his famous "Hierarchy of Needs" pyramid, Abraham Harold Maslow, an American psychologist, tried to grade human needs into five levels of importance. The basic are physiological needs, then safety and security needs, to be followed by love and belonging needs, after which are found esteem needs and finally, the highest needs are for self-actualisation.¹

(1) Maslow, A. 1968. *Toward a Psychology of Being*.

According to Maslow, the higher one climbs in the pyramid, the better off one is. Without fulfilling the basic need, one can't proceed further, to other needs.

In light of this theory, I tried to examine the necessity of different functions and aspects in the project - as will be described further on.

In the last few decades, Architects such as Deborah Berke, Steven Harris and others tried to apply Henri Lefebvres' philosophy of the "Everyday Life" into the Architectural realm. Lefebvre, a French Philosopher, attempted during half a century (1920-1970) to define his ideas of everyday life and the nature of space, mainly in urban environments.

"What is the goal? It is the transformation of life in its smallest, most everyday detail".⁽²⁾

Lefebvre was very active and influential in the French urbanism in the 60's and the 70's, when he called for more centrality in the city, street life, residential participation and opportunities for spontaneity

In order to meet the community's everyday needs, the Architect's goal is to be a professional interpreter of people's needs into form and

(2) Henri Lefebvre - *Critique of the everyday life*, 1947

space. He does this first, by identifying and analysing the real needs second, by interpreting them into Architectural language and third, by implementing them.

The township of Alexandra can be seen to be progressing along Maslow's hierarchy. The physiological needs are cared for in the vast effort of establishing a new infrastructure. The highest needs of self-actualisation are, at that stage, not relevant for the majority of the community.

The Art Centre then, would try to provide functions, which cater to the three - main needs according to Maslow's pyramid.

Transparent spaces encourage trust and a sense of security. Along with a gradual system of spaces - public-semi public-private, which defines the hierarchy among the functions, the need for safety and security, is fulfilled.

As a gathering place for groups and varied activities, the need for love and belonging can be reached. Self-esteem needs can be fulfilled by the creation of art, the selling and presenting of one's own products and receiving appreciation for one's work.

In terms of the "Everyday Life" philosophy, the Art Centre tries to create different types of closed

and open spaces for its functions. It takes into consideration daily activities happening within the township, and creates similar but varied spaces as a platform for additional activities.

A few principles of "Everyday Life" philosophy were at the base of the design.

First, strengthening existing pedestrian movement instead of creating a new system. Second, catering to and improving domestic art activities instead of inventing new ones. Third, connecting and widening surrounding community spaces into the centre instead of creating unique and isolated spaces. Forth, using local materials instead of imported ones.

To sum up, in this unique context of community, the ability to let people feel comfortable with the Architectural outcome, relies on the consideration of their daily known patterns of behaviour. The building and the space should not be the goal but the tool to carry out people's activities, whether in private or in public.

Through the design discourse, I will try to investigate the roll of the Community Centres - assisted by the Israeli nation wide concept - within a daily local fabric of the township.

Precedent Study	3
Alexandra Network of Community Centres	3
Background	3
Operational Concept	3
Community Centres - Alexandra	4
Community Centres - South Africa	6
Lateral Conclusions	8
An Israeli Model for Integrated Community Centres	9
Background	9
Operational Concept	10
Basic Assumptions	10
Conceptual and Physical Programme	11
Three Common Types of Centres	12
Physical Planning	15
Main Characteristics of Israeli/South African Community Centres	16
Concept	21
Context Study	25
Alexandra History and Planning	25
Alexandra Renewal Project (ARP)	25
Site Documentation	29
Site Location and Characteristics	30
Regional Analysis	31
Housing	34
Movement System	35
East Bank Community Centre	36
The Site	39
Jukskei River	43
Scrap Metal and Street Art	45

Security Concept	47
Tuck Shops	48
Problem Statement	51
Introduction	51
Township Problems	51
General Objectives	52
General Assumptions	52
Main Design Points	52
Administrative Concept	54
Design Development	57
Functional Characteristics	57
Conceptual Diagrams	60
Development of the plan	66
Accomodation	76
Allocation of Functions	77
Climate Concept	79
Design Influences	81
Technical Documentation	83
Technical Report	85
Working Drawings	91
Financial Strategy	102
List of Sources	104

List of Figures

- | | | | |
|--------|--|--------|--|
| Fig 1 | Computer laboratory - Alexandra | Fig 31 | Alexandra's layout - map |
| Fig 2 | Community centers - map | Fig 32 | Topographical map |
| Fig 3 | Youth library - Alexan Resource Centre (ARC) | Fig 33 | East Bank's development map |
| Fig 4 | Main square - ARC | Fig 34 | East Bank's development map (detailed) |
| Fig 5 | Amphitheatre - ARC | Fig 35 | Site documentation |
| Fig 6 | Main entrance - ARC | Fig 36 | Regional air photo - Alexandra |
| Fig 7 | ARC layout sketch | Fig 37 | Functional regional map |
| Fig 8 | MPCC offices | Fig 38 | Site location |
| Fig 9 | Nelson Mandela Museum - sketch | Fig 39 | The green strip |
| Fig 10 | Main hall - Center for the Elderly | Fig 40 | Jukskei River corridor |
| Fig 11 | Guga S'thebe Art, culture and heritage Village | Fig 41 | Housing around the site |
| Fig 12 | Early childhood Centre | Fig 42 | Old brick house |
| Fig 13 | Unobuntu Multi Purpose Centre | Fig 43 | Local Shack |
| Fig 14 | Bopitikelo molatedi centre | Fig 44 | East Bank house |
| Fig 15 | Art center - Israel | Fig 45 | Regional site model - "Natural Entrance" |
| Fig 16 | CYSC Zafed - Israel | Fig 46 | Regional site model - "Urban Entrance" |
| Fig 17 | Art Workshop - Israel | Fig 47 | Regional site model - the bridge |
| Fig 18 | Children library - Israel | Fig 48 | Regional site model - Community Hall |
| Fig 19 | Sport hall - Israel | Fig 49 | East Bank Community Centre - map |
| Fig 20 | Kindergarten - Israel | Fig 50 | East Bank clinic |
| Fig 21 | CYSC scheme - Israel | Fig 51 | East Bank swimming pool |
| Fig 22 | CYSC network - Israel | Fig 52 | Community Hall graph |
| Fig 23 | CYSC Urban Company - Israel | Fig 53 | Swimming pool graph |
| Fig 24 | CYSC Shefar'am - Israel | Fig 54 | Community hall |
| Fig 25 | CYSC Physical scheme - Israel | Fig 55 | The site |
| Fig 26 | CYSC Pisgate Ze'ev - Israel | Fig 56 | The green strip |
| Fig 27 | Sewing wokshop | Fig 57 | Viewpoint to Alexandra |
| Fig 28 | Alexandra during the struggle days | Fig 58 | Pedestrian Bridge |
| Fig 29 | Central Gauteng Province - map | Fig 59 | Pedestrian Bridge - graph |
| Fig 30 | Johannesburg area - map | Fig 60 | Site section (E-W) - sketch |

- Fig 61 Site section (N-S)- sketch
- Fig 62 Local games
- Fig 63 Internal street
- Fig 64 Marabaraba
- Fig 65 Saturday prayers
- Fig 66 Taxi rank
- Fig 67 Flood line
- Fig 68 Gabions work
- Fig 69 The Jukskei River today
- Fig 70 Infrastructure works at site - sketch
- Fig 71 Coal usage- sketch
- Fig 72 Local ablution unit - sketch
- Fig 73 Pedestrian Bridge - sketch
- Fig 74 Scrap metal courtyard
- Fig 75 “Street garage”
- Fig 76 Scrap metal sculpture
- Fig 77 Locksmith workshop
- Fig 78 Local Craftsman
- Fig 79 Pedestrian community
- Fig 80 Street graffiti
- Fig 81 Tuck-shop characteristics
- Fig 82 Conceptual sketch - site
- Fig 83 Corridors sketch - site
- Fig 84 Spaces around the site - sketch
- Fig 85 View points around the site - sketch
- Fig 86 Focal points at the site - sketch
- Fig 87 Climate sketch
- Fig 88 Aerial model
- Fig 89 “Natural Entrance” - sketch
- Fig 90 “Urban Entrance” - sketch
- Fig 91 Gathering area linked to Community Hall - sketch
- Fig 92 Connection to vacant triangle - sketch
- Fig 93 Site model 1
- Fig 94 Site model 2
- Fig 95 General conceptual sketch
- Fig 96 Capturing the movement path - sketch
- Fig 97 Main blocks - sketch
- Fig 98 Final concept model
- Fig 99 Site model 3
- Fig 100 Main square and veranda- sketch
- Fig 101 Exhibition hall and ramp - model
- Fig 102 Exhibition hall entrance - model
- Fig 103 Entrance - sketch
- Fig 104 Articulation point - sketch
- Fig 105 Articulation point - model
- Fig 106 “Natural Entrance” - sketch
- Fig 107 Connection to the bridge - sketch
- Fig 108 Multi Purpose Hall and courtyard - model
- Fig 109 Viewing deck to the hall
- Fig 110 Environmental Centre - sketch
- Fig 111 Connection to the river - sketch
- Fig 112 Ground floor surface
- Fig 113 First floor surface
- Fig 114 Internal spaces - sketch
- Fig 115 Public/private spaces
- Fig 116 Sunbeam protection - sketch
- Fig 117 Spaces according to climate - sketch
- Fig 118 Ventilation scheme - sketch
- Fig 119 Ventilation corridors
- Fig 120 Shaded areas - sketch
- Fig 121 Charles Corea - plan
- Fig 122 Charles Corea - section
- Fig 123 East Cost Architects - project
- Fig 124 Nina Maritz - project
- Fig 125 Allocation of solar systems
- Fig 126 Solar systems
- Fig 127 Allocation of water tanks