



A Heart for our beautiful World



North American – Latin American Initiative



Project Description



Objective



General Informations



Location



Construction System



Construction I - IV



Estimate



Time Shedule



Cash - Flow



Conclusion



University of Environment Protection & Application



North American – Latin American Initiative



Objective



There are several Objectives for this Project:

Create a Study Possibility - Most of Latin American Students go to USA

Create a Place where new technologies find there way to approual

Create a Place of International Capacity and Exchange of New Technologies

Create a Center where Engineers can take Courses of recapacitation

Decentralize the Study Culmination Point of Asuncion

Create a Center where all techniques are in one place

Give young people with High IQ and Interest in Environment a Chance

Sponsor high capacitated kids without recourses (10% of capacity= 120 St)



➤ Institution Hariel AG - 📧 harielrh@googlemail.com - 📧 foundationariel@googlemail.com



Project Description



The Program

Capacitation for three levels : Pregrade – Grade and Post Grade

- **Practic in Laboratories and natural areas**
- **Research – Investigation - experiments**
- **Lodging for Students and Teachers – National and International**

Design

Complexity and Multiplicity in relation of the Ddiferent Components

- **Functional Diversity & Technical exigencies**
- **Maximum efficacy in relation of Communication**
- **Relation of interior & Exterior Space – Auditrium – Classrooms – Outside Practice**
- **In relation to the Environment**
- **Conductiong and adopting present forms & Constants of Nature**





Project Description II



Site Distribution

Using the site

- Rational use of the Building Site
- Using the natural form of the nature to adapt the Project
- Conducting all to the Center from which all activities will be developed

The Interior Sites

- Area of Auditoriums – Classrooms – Laboratories – Technical Research
- Area of Administration – Reunions – Protocols – legal acts
- Area of Recreation – Restaurant - Bedrooms

The Exterior Sites

- Area for labor experiments: Organic Production – Forestation - reforestation
- Area for recreation - Parks
- Area for Sport Activities



University of Environment Protection & Application



Construction



Buildings

The Circular Center of the Complex – two Levels

- Auditorium – 23 m Radius – 7,50 m Hight – dividible in different Sectors
- Audirorium – 18 m Radius – 7,50 m Hight - Transparent Roof

9 x 2 Floor Side Buildings connected to the Center – all a different Purpose 46 m x 14 m

1	Administration, Directorate, Secretariate, Office for Employees, Teacher Recreat.
2	Classrooms & Laboratory for the Department Water
3	Classromms & Laboratory for the Department Alternative Energy
4	Classrooms & Laboratory for the Department Air Polution
5	Classrooms & Laboratory for the Department Forestation + Reforestation
6	Classrooms & Laboratory for the Department Organic Plantations
7	Classrooms & Laboratory for the Department Recycling
8	Classrooms & Laboratory for the Department Natural Wild Life
9	Classrooms & Laboratory for the Department Inventions + new Technology



University of Environment Protection & Application



Construction II



Buildings

9 x 2 Floor Side Buildings 46 m x 14 m forming an outer Circle of the Complex

1	Kitchen – Restaurant / First Floor Bedrooms for employees
2	Lodging Building for National Students 14 –18 Years
3	Lodging Building for Students of 19 til 21 Years
4	Lodging Building for Adult Students
5	Lodging Building for Hyperintelligent Kids without financial Resources
6	Lodging Building for Students from South America
7	Lodging Building For Students speaking only English
8	Lodging Building for Seminaries, Congresses and Short programm Work Shops
9	Lodging Building for Magisters and Foreign Teachers

Outdoors

- Circulation - Parkings - Parks - Sport – Area - Gardens
- Area for the practice of organic Plantations – reforestation –Cultivation - Wild Life





Construction III



Buildings

Circular Structure

There are two types of Circulations

- 1 Horizontal : Interrelations of the different Ldging Buildings, Study Buildings and the Center Auditoriums and access – exit to the National Streets + Bus Station
- 2 Vertical : Interrelation between the two Floors through Stairways, placed at the most circular points with the majority of movements



Construction System

- The Construction material will be based on a new kind of stone of local production with a high quality in relation of isolation – stability – water and Humidity resistant – fire proof till 900 ° C and very firm for a long duration – Doors will be made of massive wood – floors of granite – and special designed windows.
- The equipments will be of the most modern quality to guarantee the use of the newest methods of reseach in Aulas and Laboratories
- The Kitchen will be equipped with efficient machinery to guaranty a fast service of healthe food – the bedrooms will be equippedwith simple and durable furniture





Construction IV



Green Areas

- 1 Green areas will be placed between all the buildings giving the opportunity to place the outside illumination, the ventilation. Each building has an own garden so the students of one department stay together during the pauses to evitate that 1200 students mix up all in one only area. Partially they will be covered with awnings and native plantations which guaranties a micro clima.
- 2 The existent woods on the Site will not be touched – the proyct will be adapted in the spaces in between. – all plantations will be done in 9 different sectors with different purpose each – the rest of the green area will remain natural



Installations

- All the technical installations will be chosen at the view point of of the most advanced environmental protection standard – like Solar energy — natural airation
- Eater rycycling and circulation system through the own well – waste water will be treated organically
- Trush will be separated in organic and non organic and will be given for recycling



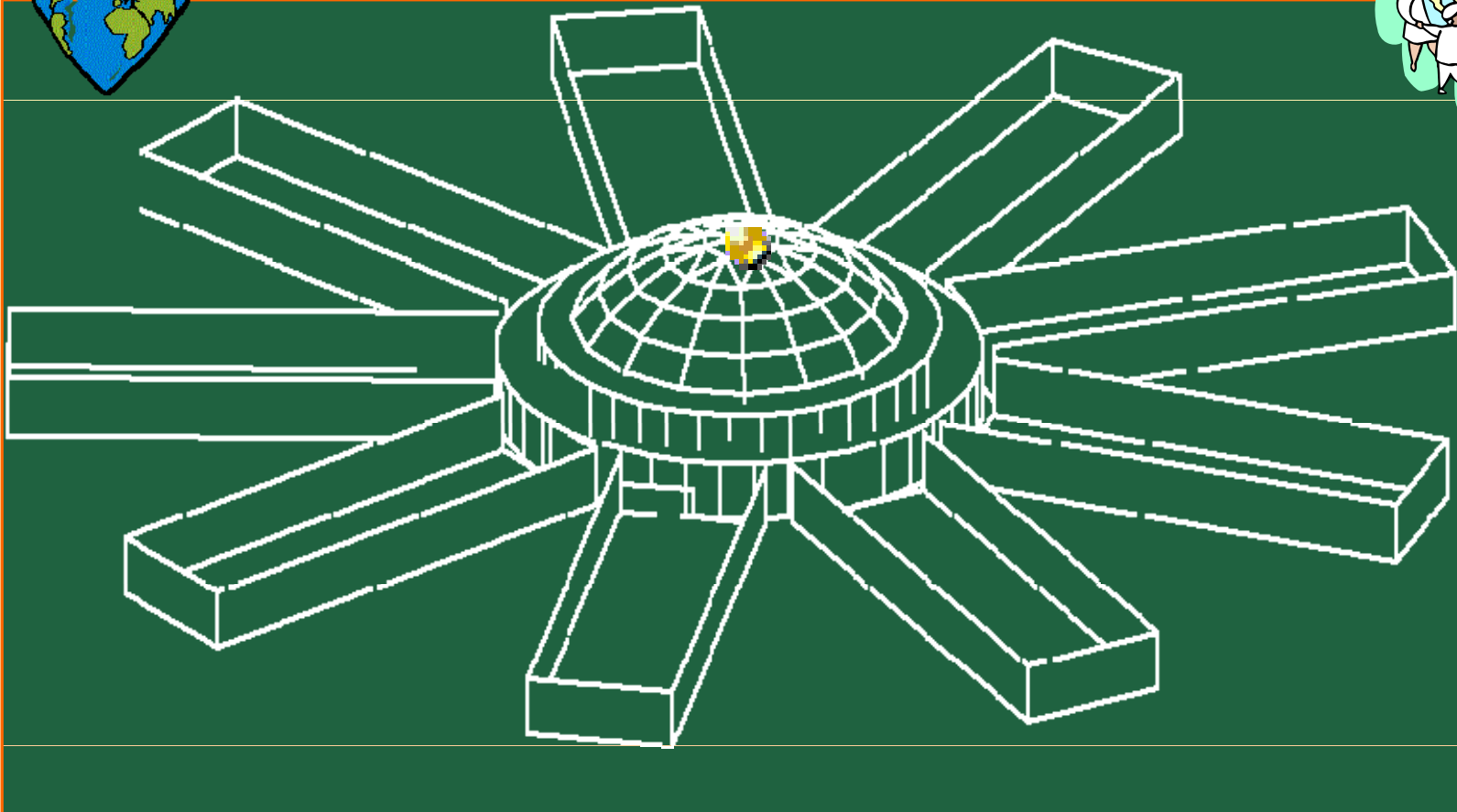
University of Environment Protection & Application

Basic Lay Out

Each wing is a technique a part with own Laboratory and Class Rooms

In the Extremities of the Spaces there are other Buildings :Bedrooms

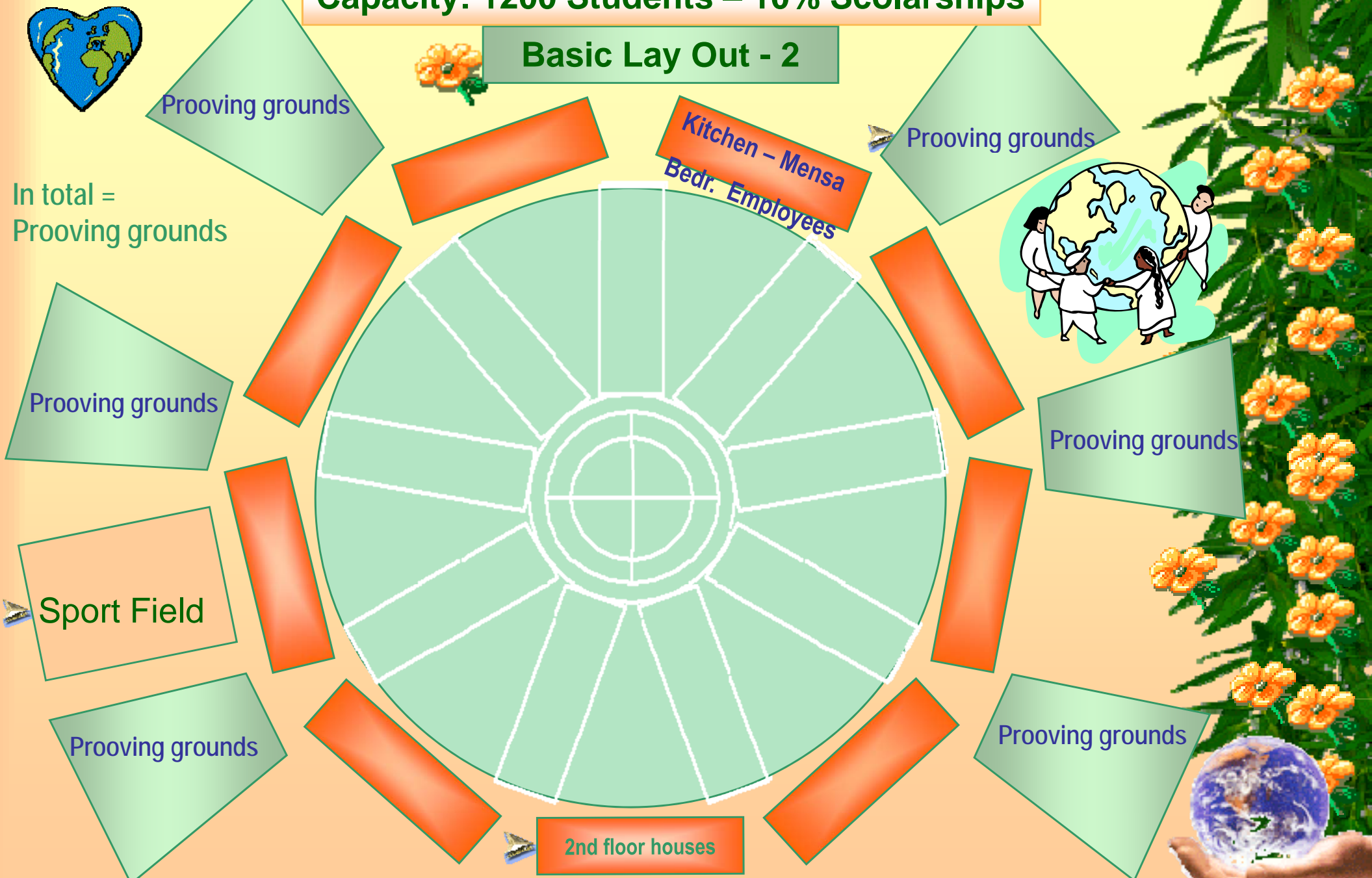
The Dome will have 4 Floors : Lector Rooms



University of Environment Protection & Application

Capacity: 1200 Students – 10% Scholarships

Basic Lay Out - 2



Prooving grounds

In total =
Prooving grounds

Prooving grounds

Sport Field

Prooving grounds

2nd floor houses

Kitchen - Mensa
Bedr. Employees

Prooving grounds



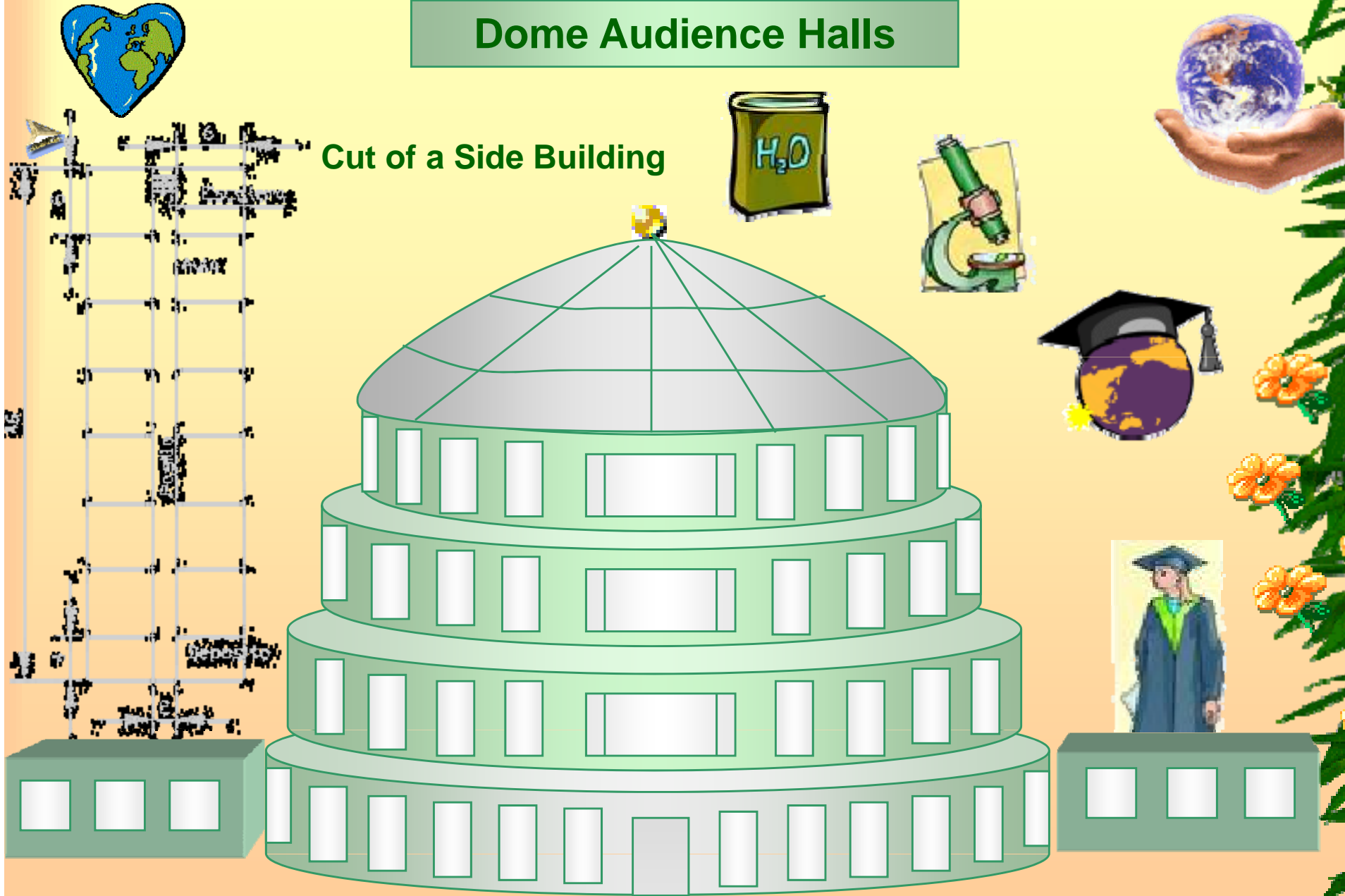
Prooving grounds

Prooving grounds



Dome Audience Halls

Cut of a Side Building





PROYECTO: **UNIVERSIDAD DEL AMBIENTE**

PROPIETARIO: **FUNDACION ARIEL**

FECHA: **01/07/2003**

Construction Costs

PLANILLA DE PRESUPUESTOS

ITEM	DETALLE	UNID	CANT.	P. UNITAR. \$	P. TOTAL \$
1	AUDITORIUM:	GL	1	7.800.000	7.800.000
2	BLOQUES DE AULAS	M2	18.000	600	10.800.000
3	BLOQUES DE DORMITORIOS	M2	18.000	600	10.800.000
4	OBRAS EXTERIORES:	GL	1	3.700.000	3.700.000
4.1	CAMINO DE ACCESO PRINCIPAL DE 4 VIAS	M2	130.000	40	5.200.000
5.1	CANCHAS DE FUTBOL CON LUMINICAS Y GRADERIAS	UNID	2	220.000	440.000
5.2	CANCHAS DE BASKETBALL CON LUMINICAS Y GRADERIAS	UNID	2	60.000	120.000
5.3	CANCHAS DE VOLEYBALL CON LUMINICAS Y GRADERIAS	UNID	2	50.000	100.000
5.4	SECTOR DE SERVICIOS Y MANTENIMIENTOS	M2	1.000	400	400.000
5.5	PAISAJISMO	GL	1	500.000	500.000
5.6	ILUMINACION EXTERIOR	GL	1	150.000	150.000
5.7	PILETA OLIMPICA	GL	1	150.000	150.000
5.8	POZO ARTESIANO CON TANQUES Y RED	UNID	4	30.000	120.000
5.9	PLANTA DE TRATAMIENTO DE AGUAS RESIDUALES	GL	1	500.000	500.000
6	MUEBLES Y EQUIPAMIENTOS:	GL	1	5.100.000	5.100.000
2	GERENCIAMIENTO TOTAL DEL PROYECTO:	GL	1	1.000.000	1.000.000
1	Diseño arquitectonico y estructural Y especificaciones	GL	1	3.000.000	3.000.000
9	COMPRA DE TERRENOS	GL			2.000.000
COSTO DEL PROYECTO.....\$					51.880.000
IMPUESTO AL VALOR AGREGADO Y RENTAS.....\$					7.522.600
PRESUPUESTO TOTAL.....\$					59.402.600

SON DOLARES AMERICANOS CINCUENTA Y NUEVE MILLONES QUINIENTOS CUARENTA MIL.-





University of Environment Protection & Application

Financing Cronogram



FUNDACIÓN ARIEL		CRONOGRAMA FINANCIERO (en miles de Dolares)																							
		CAMPUS UNIVERSITARIO UNIVERSIDAD DEL MEDIO AMBIENTE																							
DESCRIPCION	MESES y MILES DE DOLARES												MESES Y MILES DE DOLARES												
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
0	Compra de terreno	2290																							
1	Diseño arquitectonico y estruc. Y espec.	858,8	858,8	858,8	858,8																				
2	Gerenciamiento Gral.y Direccion de obras	47,71	47,71	47,71	47,71	47,71	47,71	47,71	47,71	47,71	47,71	47,71	47,71	47,71	47,71	47,71	47,71	47,71	47,71	47,71	47,71	47,71	47,71		
3	Obras exteriores preliminares		847,3	847,3	847,3	847,3	847,3																		
4	Camino de Acceso Principal de 4 vias			595,4	595,4	595,4	595,4	595,4	595,4	595,4	595,4	595,4	595,4												
5	Auditorium			1276	1276	1276	1276	1276	1276	1276															
6	Bloques de aulas							1546	1546	1546	1546	1546	1546	1546											
6	Bloques de dormitorios									1546	1546	1546	1546	1546	1546	1546									
7	Obras Accesorias									218,4	218,4	218,4	218,4	218,4	218,4	218,4	218,4	218,4	218,4	218,4	218,4	218,4	218,4		
9	Equipamientos										449,2	449,2	449,2	449,2	449,2	449,2	449,2	449,2	449,2	449,2	449,2	449,2	449,2		
	59402,6	3196	906,5	1754	3625	2766	2766	2766	3465	3465	3465	3953	4402	4402	3807	3807	2261	2261	2261	715,3	715,3	715,3	715,3	496,9	

PLANILLA DE PRESUPUESTOS																									
ITEM	PRECIOS GLOBALES TODO INCLUIDO	DESCRIPCION																							
1	3.435.000 U\$D.	Diseño arquitectonico y estruc. Y espec.																							
2	1.145.000 U\$D.	Gerenciamiento Gral.y Direccion de obras																							
3	4.236.500 U\$D.	Obras exteriores preliminares																							
4	5.954.000 U\$D.	Camino de acceso principal de 4 vias																							
5	8.931.000 U\$D.	Auditorium																							
6	12.366.000 U\$D.	Bloques de aulas																							
7	12.366.000 U\$D.	Bloques de dormitorios																							
8	2.839.600 U\$D.	Obras Accesorias																							
9	5.839.500 U\$D.	Equipamientos																							
10	2.290.000 U\$D.	Compra de terrenos																							
	59.402.600 U\$D.	PRECIO TOTAL GENERAL TODO INCLUIDO																							



University of Environment Protection & Application



Conclusion



Location: Aregua – Paraguay



Most Central Point in Latin America



Possibility for further Education for Engineers



Speakers & Experts from all around the World



Short Programs, Workshops, Seminars, Congresses



New Kinds of Professions in Environment Protection



Departments for all different Environment Departments



New Technologies – New Knowledge – New Methods



Series of Experiments for less Price Solutions



Complete Education • Studies • Sponsorship



ADJUSTMENTS TO BE MADE for 2017

- Construction costs have doubled here since 15 years also building plots –the project has to be recalculated
- The organization is set up to international level always renewed and adapted to new clean technologies
- The last 15 years trash solutions have been approved and are ready to go
- This project is designed and dedicated on global change – environmental consciousness and a new understanding of life in one in multidimensional diversity
- Getting this project realized opens the door to multiplication all over the planet
- Planetary Healing : Water, Air, Natural Resources – Flora Fauna
- Planned to unite all new inventions who want to join because of financial needs, application grounds offering research possibilities

Regina Hochmuth Curriculum Technology -Water



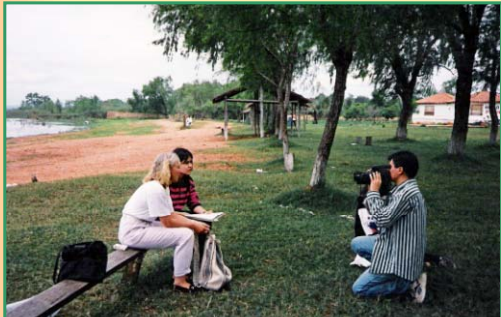
1988 Paraguay as member of a Group for Technical Development for a Governmental

Foundation : Department Environment Protection has been initiated for helping to finance Water Projects because there are no credit lines for Paraguay until today and the waters are in a desolate state



Dinner with the Ministry of Justice & Work

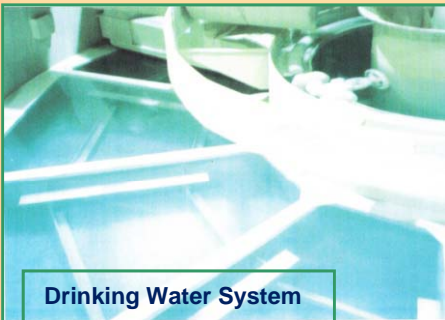
1995 Representant of Krofta in Paraguay > Waste Water Treatment Plants



Interview from Teanagers : How can we save the



Mexico Seminary for all Representants fo latin America



Drinking Water System



Expo Paragua / Munich Germany / Milano Italy



Needing Financing for many Installations for communities never getting credit lines

Municiple & Insustrial Waste Water Treatment Plants – Drinking Water Systems

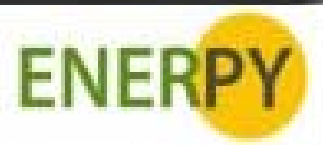
REACTOR FOR ORGANIC MATTER

Eco Technology
Eco Recycling
Eco Products

RMO Solutions

THE WAY BACK TO A GREEN WORLD

Elimination of Urban Trash Deposits
Industrial Waste & Organic Matter





Main materials being treated by RMO - Reactor



Reactor for Urbanic Waste (Cleaning entire old deposits)

Organic Matter (Including expired groceries)

Industrial Waste (+ toxics)

Information: Regina Hochmuth – enerpycontact@gmail.com

RMO Instalations: Paraguay + the Netherlands / Delegations visits: please contact

