

ALPH. INDEX	AUTHOR AND TITLE	CODEN	DATE PUBLICATION	STARG NO. PGXZ	EK PGS.	COUNTRY UN	CODE
WORLD	OBERLANDER, H.P. GLOBAL URBANIZATION, IS IT SUSTAINABLE? GLOB.URBANZN SUSTAINABTY UN HABITAT	EKISA	JULY-DEC.04	289	3	WORLD	000
						I.R.	
	PSOMOPOULOS,ED. P. THE NATURAL CITY (PART ONE) NATRL CITY PUBL.EDUC RESEARCH	EKISA	JAN-JUNE,04	7	1	WORLD	000
						EKISTICS	
	PSOMOPOULOS,ED. P. THE NATURAL CITY (PART TWO) NATRL CITY PUBL.EDUC RESEARCH	EKISA	JULY-DEC.04	167	1	WORLD	000
						EKISTICS	
	YILMAZ, M.+ SUSTAINABLE HOUSING DESIGN AND THE HOUSING SUSTAINABTY DESIGN	EKISA	JULY-DEC.04	236	9	WORLD	000
						NATURAL ENVIRONMENT R.	
YILMAZ,	M.+ SUSTAINABLE HOUSING DESIGN AND THE HOUSING SUSTAINABTY DESIGN	EKISA	JULY-DEC.04	236	9	WORLD	000
						NATURAL ENVIRONMENT R.	
ZANOU,	B. CONDITIONS FOR EFFECTIVE WATER ADMIN POLITICS	EKISA	JULY-DEC.04	282	7	EUROPEAN UNION	
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The need "... to invent a new Environmental Economics, which should not be too difficult inasmuch as the current business economics were invented very recently, and are constantly being re-invented."

343 Education for a sustainable environment

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The need for a lifelong formal and non-formal education starting from pre-school level on basic principles that lead to balanced and constant communities in terms of both natural and man-made environmental aspects in their totality.

349 Marine fish culture and pollution: An initial Hong Kong empirical study

Lawrence Wai Chung Lai

Apart from the lack of government subsidies to fish farmers with private property rights in Marine Fish Culture Zones, "the small size of the territory renders [the highly needed] mutual avoidance between [environmentally incompatible] high density urban (residential and industrial) development and fish farming virtually impossible."

358 Ekistic grid index

Indicative presentation of contents by article, in terms of ekistic elements, ekistic units, time, and key issues discussed.

361 Cumulative Index of Contents of EKISTICS, January-December 1992 (vol. 59)

Cover: Schematic representation of characteristic spatial and temporal scales for physical and biological processes on land and in the sea (see Andreas Y. Troumbis: "Environmental management: Theoretical inputs of ecology," fig. 2, p. 253).

Seven of the papers in this issue were collected or solicited by Andreas Troumbis, guest-editor, and the other seven by ACE in consultation with the guest-editor. P. Psomopoulos did the final editing in collaboration with the guest-editor and in consultation with the authors. R.J. Rooke provided editorial assistance, Alex Freme-Sklirou proofread the texts, Dora Spiliou was responsible for typesetting, Angela Iliadi-Moschona for graphics, Myrto Moufli for the photography, and Despina Moutsatsou and Christos Kossidas for the final dummy from a maquette by the editor.

The landscape: Design and planning – I

- 114 The anthropocosmos model**
Indicative presentation of themes emphasized in the present issue, in terms of scale, time, income group, interconnection of ekistic elements and desirability/feasibility.
- 115 The editor's page**
The increasing importance of landscape design and planning in enhancing the quality of life and contributing to the solutions of major environmental problems of the globe.
- 116 A landscape basis for planning** *Brian Hackett*
"If only there existed a determination to accept the indications of the landscape basis, technological developments would have to be judged on how they fit into the landscape instead of being allowed to dominate it, and would then need to be restricted so as to take their place in a balanced environment."
- 119 The current role and method of landscape architects in Japan** *Shintaro Sugio*
The rapidly expanding spectrum of types of projects with the key involvement of landscape architects — from theoretical and technical research, planning and design to Environmental Impact Analysis and management — through public and increasingly private initiatives.
- 124 The vital role of the landscape architect in solving environmental problems of the earth** *Derek Lovejoy*
The increasing complexities of landscape architecture and landscape planning has necessitated the introduction of ever more sophisticated technology as a tool to carry out surveys, to analyze problems and to record solutions to key problems of the earth's environment at all scales: The case of developing countries.
- 127 Shaping local, national and regional landscapes** *Haruto Kobayashi*
"... basic principles that ... knowledge, time and experience [reveal] as fundamental prerequisites for any landscape intervention to be appropriate and successful [as in the case of selected international exposition sites] at the local and national scale": future priorities at the regional and global scale.
- 136 Urban and rural landscape developments in Canberra** *Margaret Hendry*
Further to "... the provision of safe and attractive living environments, through a disciplined approach to town planning ... the treatment of space and the allocation of open land for public use, both used in an integrated manner within and surrounding all Canberra's urban components [resulted in] the provision of two thirds of the Australian Capital Territory ... for a National Capital Open Space System ... within which all hydraulic and other urban services have been progressively incorporated to provide appropriate and complementary environmental land uses."
- 152 Landscape planning in the Osaka metropolitan region, Japan** *Kimio Kondoh*
Planning policies, principles and priorities "for the development of a systematic network within the framework of the 'Parks and Greenery in the Osaka Metropolitan Region' project," the year 2000 and 2010: "From 'Parks within Cities' to 'Cities within Greenery.'"
- 159 Ecological structure of Lisbon** *Maria Raposo de Magalhães*
"The concept of the 'continuum naturale' ... the continuous system of natural occurrences which forms the basis for wildlife and the maintenance of genetic potential and which contributes to the balance and stability of the national territory," as applied in an environmental study, part of the Green Structure Plan within the framework of the Lisbon Municipal Directive Plan.
- 167 Redditch New Town – A landscape case study** *Roy Winter*
"... the response to the landscape qualities of the site has resulted in the creation of a town which is not only aesthetically satisfying but is a place where the quality of life is improved because of respect for its total ecology."
- 176 Urban land restoration on the water's edge: Case studies in Boston** *Carol R. Johnson*
Successful "approaches to design and restoration of degraded dump sites as public open space": the cases of Mystic Reservation, Old Harbor Park, as well as John F. Kennedy Park and Lechmere Canal Park, both expansions of the Charles River Reservation in the Greater Boston Area.
- 183 Residential marinas: The case of Hythe Marina Village** *Michael Oldham*
"The experience of living directly adjacent to water ... the 'drive in-sail out' house and mooring ... [t]he high quality of the architecture and landscaping and the meticulous attention to the detail of spaces and their components, create a memorable impression and a beautiful environment in which to live, work and play" — a case of 225 houses, 500 marina berths and all needed services and facilities developed which started in 1982 on the south coast of England as inspired by Port Grimaud in France.
- 190 Land suitability for recreational activities in the Prespa Lakes National Park, Greece** *Ioannis A. Tsalikidis*
Identification of the potential for the development of tourist related activities such as walking, climbing, camping and swimming, in a natural reserve of extreme sensitivity "through a method ... based ... on logical combinations of parameters" — such as "land use, accessibility to road network, slope, exposure, and altitude — to enable the planner to thoroughly comprehend the rules which are set" and to provide more objective means of evaluation of opportunities, conflicts, and risks.
- 196 Water in physical planning: Handling a resource of aesthetic, environmental and pedagogical importance** *Lars Nyberg*
"Systems for local management of stormwater and nitrogen retention ponds" not only constitute a means of solving technical problems, but are also "excellent opportunities for arranging attractive water features adding beauty and biological richness to our green spaces [and] a pedagogical means for increasing engagement in preserving our environment."
- 201 Obstacles to aesthetics** *Robert H. Mortensen*
"... most people ... [and] [t]hose of us in the design and planning profession ... aspire to provide livable cities and personal environments that are fun, livable, cost-effective and achievable ... Yet ... the results of our efforts today [are not] the most desirable places to spend time [as the older parts of communities are] because of the charm, the human scale and the ambience" prevailing there; the negative and limiting role of the "current mass of ordinances and regulations" as, for example, in the case of enforcing a highway standard, which lines the "massive and competing signage messages," as well as the process of planning where learning from past achievements and from people is ignored.
- 204 Jakarta's Monas Park through the ages** *Jusna M. Amin*
"Monas Park now becomes a great public landscape ... preserved and developed not only to pay homage to the past, but also to be the pride of the nation and people of Indonesia and the citizens of [the capital city] ... at present and in the future."
- 215 Towards a model for an urban park in South Africa** *Graham Young*
"In reaction to ... problems and perspectives [prevailing in the country], drawing on a cross-referencing of theory, ... urban park design and planning [should] incorporate social values: ... encourage community participation; capitalize on the nature of the [site and appropriate] ecological principles; strive for safe environments; and ensure financial feasibility": cases of successful implementation in Pretoria and Johannesburg.
- 225 Ekistic grid index**
Indicative presentation of contents by article, in terms of ekistic elements, ekistic units, time, and key issues discussed.

The landscape: Design and planning – 2

- 2 The anthropocosmos model**
Indicative presentation of themes emphasized in the present issue, in terms of scale, time, income group, interconnection of ekistic elements and desirability/feasibility.
- 3 The editor's page**
The tasks ahead of landscape planning and design in enhancing human habitats and harmonizing development with natural ecosystems.
- 4 A framework for theory and practice in landscape planning** *Carl Steinitz*
Six types of question, each considered as "a level of inquiry relating to a theory-driven modeling type ... based in usable and valid ... theory" and in "management of information" with the help of GIS: the case of the "Alternative Futures for the Snyderville Basin, Summit County, Utah, USA" project.
- 10 Landscape planning and water management in the Netherlands** *Meto J. Vroom, Klaas Kerkstra, Michael van Buuren and Wim T. Wassink*
"... the effects of water management on environmental quality in the Netherlands in general, and on landscape amenity and nature conservation in particular": "... the relation between hydrological systems, land-use patterns, and the physiognomy of" the Regge and Dommel rivers' stream valleys and "proposals for changes in land-use patterns or, alternatively, in water flow systems" aiming "at a separation of types of land use and water flows of different quality, the retention of water during dry seasons and the purification of polluted water" and leading towards "a viable and sustainable landscape structure."
- 22 The city should be rich in the pleasures of wild nature – A traditional aesthetic concept of China for urban planning** *Sun Xiao Xiang*
The fact that "People live in the large cities just like birds in splendid golden cages ..." longing "for green grass, wild flowers, blue sky, murmuring streams, woodlands and singing birds" proves that the traditional response to "the 'call of wild nature!'" and the preaching of the aesthetics of nature on philosophy, literature, music, and landscape gardening "may be of some use to the modern landscape planners and designers of China or other countries."
- 29 Landscape planning and ecology** *G.K. King'oriah*
"We are now on the threshold of attaining rational management of our activities, and creating an environment that will not only protect the highest values of our culture and nature, but also add new concepts which will be combined to form one discipline" — the discipline of landscape planning which advocates systematic methodologies and knowledge — "that will perpetuate informed perturbation of the existing ecosystems within the biosphere."
- 33 Sustainable landscapes through spatial organization of green spaces in rural regions** *Yoritaka Tashiro*
Research work on the definition of a green open land region's typology in arid and semi-arid regions of Northern Pakistan, in view of "harmonizing human settlements with the natural environment" through environmental and landscape planning.
- 38 Types of Lithuanian landscape as a basis for urban development** *Regimantas Pilkauskas and Alvydas Zickis*
The use of a comparative landscape evaluation method in planning and designing urban expansion in Vilnius and Kaunas, the two largest Lithuanian cities: the cases of clayey plains, hilly uplands and river valleys.
- 47 Green open space to improve air quality in metropolitan Jakarta** *Ning Purnomohadi*
The use of "the Urban Dynamic System and Spatial Analysis System ... to analyze and develop simulation models and sub-models to describe the impacts of urban air pollution dynamics on Urban Green Open Spaces, and vice versa": the cases of transportation, industrial zones and residential areas in Jakarta.
- 59 Neugebäude Palace and its gardens: The green dream of Maximilian II** *Alfred Lesel*
The evolution in design and implementation of planning "the most important masterpiece of Renaissance horticultural landscaping" in Vienna, Austria.
- 68 Cultural landscapes** *Carmen Añón*
The world effort in defining guidelines for the declaration of new sites of cultural landscapes to be included in the World Heritage List: countries' response, experts' initiatives and promotion for future action.
- 71 Landscaping in Italy: The parks of North Tiber and Collalto Sabino Castle** *Lidia Soprani*
"In both projects, different as they are from one another in almost every respect, an effort has been made to adopt a scale of values in which the 'human' or 'man-made' dimension — which is strongly present anyway — is conceptually subordinated to a series of other elements belonging to 'nature'; the "use of existing qualities or preserving the quality potential" in facing basic problems in Italy — a country with extensive historic heritage where external and internal pressures might otherwise cause inevitable destruction.
- 80 A landscape approach: Constituting and taming heterogeneity** *Bernard Lassus*
"... the aim of the work of the planner — be he an urbanist, landscape architect, or colorist — is to clarify the different important factors and also the hierarchy of the scales relative to the places where he works, which are often confused before the intervention": a footbridge for children, a public garden, a motorway rest area, and some cases of painting housing schemes.
- 90 Children, green areas and the sense of community in Mexico City** *Concepción Laguna de Ojeda*
Research in the green areas and open areas of Mexico City confirms that children increasingly frequent a variety of types of play areas, where conditions such as "accessibility from housing to the green area; security in the neighborhood; and landscape architectural design, favoring play activities" are fulfilled.
- 94 The planning of recreational regions in Lithuania** *Vladas Stauskas*
Theoretical planning concepts and applied planning efforts of the Department of Land Management of the Institute of Architecture and Construction, Lithuania, in developing the national territory jointly considering "the network of towns and the network of natural resources for recreation" and tourism within a natural, technogenic and touristic-recreational framework.
- 100 Planning and managing the urban fringe landscape** *George L. Anagnostopoulos*
The problems of uncontrolled development and severe environmental degradation of unbuilt areas on the edge of cities, especially in the Third World and the primordial utility and importance of these rural or semi-rural zones of natural landscape for recreation, relaxation or escape for frustrated urban dwellers and for more direct contact with nature.
- 105 Community forests in England and Wales** *M.F. Downing*
The important economic and social role of the decision to develop twelve Community Forests and a national forest as part of the effort to increase the amount of forest land in England and Wales, having as objectives "production of timber; visual improvement of the environment; creation and enhancement of wildlife habitat; improvement of recreation opportunities; and the expansion of user capacity in areas where there are likely to be many visitors."
- 115 Renewal in rural Luxemburg** *John Weier-de Haas*
The concept and anticipated process of action for rural revitalization "as an all-encompassing cultural movement, dealing with a wide range of issues, from educational and publicity work to the re-shaping of basic aspects of rural life in ways which are socially and environmentally acceptable."
- 120 Edges** *James Bischoff*
"... those of us whose minds dwell on landscape are most fascinated by the edges — by the edge of one ecosystem juxtaposed to another ecosystem, one metaphorically filled landscape almost tactically rubbing against or framing another. ... The most moving edge to my consciousness is the juxtaposition of rock and water — the sea and the land — two so different states of being."
- 124 Ekistic grid index**
Indicative presentation of contents by article, in terms of ekistic elements, ekistic units, time, and key issues discussed.

Papers in this issue are a selection from a large number of documents solicited and compiled by the editor in close collaboration with George L. Anagnostopoulos who, in his capacity as President of the International Federation of Landscape Architects (IFLA), was also instrumental in conceiving and planning the special research and documentation effort undertaken by ACE, which is reflected here. P. Psomopoulos edited the papers in consultation with the authors. R.J. Rooke provided editorial assistance, Alex Freme-Skiriou proofread the texts, Dora Spiliou was responsible for typesetting, Angela Iliadi-Moschona for graphics, Myrto Moufli for the photography, and Despina Moutsatsou and Christos Kossidas for the final dummy from a maquette by the editor.