Published Quarterly
Volume 5, No. 3 – Autumn 1978

Environmental Conservation

The international Journal devoted to maintaining global viability through exposing and countering environmental deterioration resulting from human population pressure and unwise technology

Founded and Edited by NICHOLAS POLUNIN

Conferences & Reviews Dr M.A. Farid Editorial Assistant N.V.C. Polunin



Published for the
FOUNDATION
FOR ENVIRONMENTAL
CONSERVATION

by
ELSEVIER SEQUOIA S.A.
Lausanne of the little of the lit



with the collaboration of the
International Union for Conservation of Nature
and Natural Resources (IUCN)
International Association for Ecology (INTECOL)



International Conferences on Environmental Future (ICEF) World Environment and Resources Council (WERC) and World Wildlife Fund (WWF)

ENVIRONMENTAL CONSERVATION

advocates timely action for the protection and amelioration of the environment of Man and Nature throughout the world: Topics range from pertinent case-histories of the past and present to rational use of resources, foreseeing ecological consequences, enlightened environmental policy, anti-pollution measures, low-impact development, environmental education and law, and ecologically sound management of all land and fresh water, sea and air, for the lasting future of Earth's fragile biosphere.

The following are the main types of contributions which may be accepted for publication in this Journal:

Survey articles on important aspects of its subject;

Research papers whether basic or 'confirmatory';

Case-history accounts of wide significance and interest:

Short Communications: reports, comments, news, notes;

Ecosystems for Conservation: examples from around the world;

Conferences & Meetings: summary reports; important prospects;

Reviews & Notices: of new books etc.

Founded and Edited by Nicholas Polunin

Conferences & Reviews: Dr M. A. Farid Editorial Assistant: N. V. C. Polunin

ADVISORY EDITORS

AFRICAN DEVELOPMENTS: Prof. Mohammed Kassas (Cairo, Egypt)

ANIMAL ECOLOGY: Dr Raymond F. Dasmann (Santa Cruz, California)

ANIMAL IMPACT: Prof. Jean Dorst (Paris, France)

AUSTRALASIA: Dr Donald F. McMichael (Canberra City, Australia)
BIOLOGICAL PRODUCTIVITY: Dr E. Barton Worthington (London,

England)

BIOSPHERE MAINTENANCE: Hon. Beatrice E. Willard (Boulder, Colorado) ECONOMIC ASPECTS: Prof. Marshall I. Goldman (Cambridge, Mass.) ECOSYSTEMS RESEARCH: Prof. Heinz H. Ellenberg (Göttingen, West Garmany)

EDUCATION AND TRAINING: Dr Jan Cerovsky (Praha, Czechoslovakia)
ENGINEERING AND TRANSPORT: Prof. John F. Coales (Cambridge,

Fngland)

EVOLUTIONARY ECOLOGY: Prof. Askell Löve (San José, California)
FRESH WATERS: Prof. W. Thomas Edmondson (Seattle, Washington)
GEOGRAPHICAL ASPECTS: Prof. Gilbert F. White (Boulder, Colorado)
HUMAN REACTIONS: Dr Thomas Adeoye Lambo (Geneva, Switzerland)
HUMAN SETTLEMENTS: Dr Pierre Laconte (Louvain-la-Neuve, Belgium)

I.C.E.Fs.: Nicholas Polunin (Grand-Saconnex, Switzerland)
INDIAN SUB-CONTINENT: Dr Jai Kishan Maheshwari (Calcutta, India)

INTECOL: Prof. Amyan Macfadyen (Coleraine, N. Ireland)

ISLAND ECOSYSTEMS: Dr F. Raymond Fosberg (Washington, D.C.) I.U.C.N.: Dr David A. Munro (Morges, Switzerland)

LAND USE AND RECOVERY: Prof. Kai Curry-Lindahl (Stockholm, Sweden)

LATIN AMERICA: Dr José C. de Melo Carvalho (Rio de Janeiro, Brazil) LAW AND ENFORCEMENT: Prof. Homer G. Angelo (Davis, California) MARINE GEOLOGY: Prof. Eric S. W. Simpson (Rondebosch, South Africa) MARINE WATERS: Dr G. Carleton Ray (Baltimore, Maryland)

METEOROLOGY AND CLIMATOLOGY: Prof. Reid A. Bryson (Madison, Wisconsin)

MICROBIOLOGICAL IMPLICATIONS: Prof. René Dubos (New York, N.Y.)
PARKS AND RESERVES: Prof. Jean-Paul Harroy (Bruxelles, Belgium)
PESTICIDES AND TOXICANTS: Dr Norman W. Moore (London, England)

PLANT ECOLOGY: Prof. Makoto Numata (Chiba, Japan)

PHYSICS AND ENERGY: Dr Amasa S. Bishop (Geneva, Switzerland)
POLLUTANTS AND DISPOSAL: Prof. Kenneth Mellanby (Abbots Ripton, England)

POPULATION IMPACT: Prof. Paul R. Ehrlich (Stanford, California)
RESOURCES CONSERVATION: Prof. S. Fred Singer (Charlottesville, Virginia)

SOCIAL STUDIES: Prof. Lynton K. Caldwell (Bloomington, Indiana)
SOILS AND EROSION: Prof. Viktor A. Kovda (Puschino-on-Oka &
Moscow, U.S.S.R.)

SOUTH-EAST ASIA: Prof. Otto Soemarwoto (Bandung, Indonesia) SOUTH-WEST ASIA; Christopher D. W. Savage (Petworth, England) TOURISM AND RECREATION: Dr Michael B. Usher (York, England) U.N.E.P.: vacant owing to transfer of Dr Kai Curry-Lindahl

W.W.F.: Dr Luc Hoffmann (Morges, Switzerland)

SUBMISSION OF MANUSCRIPTS

All contributions must be in precise English and original, submission of a 'manuscript' implying that it is unpublished and is not being considered contemporaneously for publication elsewhere. Manuscripts (two copies, including one on airmail paper) and allied materials should be sent to:

Prof. Dr Nicholas Polunin, Editor ENVIRONMENTAL CONSERVATION 15 Chemin F.-Lehmann 1218 Grand-Saconnex Geneva, Switzerland,

or to one of the above Advisory Editors. There is a set of Instructions for Authors at the end of each issue; failure to follow these in reasonable degree may lead to return of a manuscript for restyling before it can be considered or even refereed.

PUBLISHING AND SUBSCRIPTION INFORMATION

Environmental Conservation is published by Elsevier Sequoia S.A., Lausanne, for the Foundation for Environmental Conservation, with the collaboration of the International Union for Conservation of Nature and Natural Resources (IUCN), International Association for Ecology (INTECOL), International Conferences on Environmental Future (ICEF), World Environment and Resources Council (WERC), World Wildlife Fund (WWF), and others. It is covered in about twelve international contents and abstracting journals emanating from Great Britain, the United States, Italy, and West Germany.

Environmental Conservation is published quarterly, corresponding to the four seasons in the Northern Hemisphere. Size 28 × 20 cm, comprising 320 pages of text per annum (which it is hoped soon to extend). The annual subscription price for 1977 and 1978 continues at SFrs 120 (including postage) per volume.

Subscription orders and enquiries should be sent to:

ENVIRONMENTAL CONSERVATION Elsevier Sequoia S.A. P.O. Box 851

https://doi.org/10.1017/S037689290000583X Published online by Cambridge University Press