Journal of the New Alchemists

Journal 1 - 1973
Journal 2 - 1974
Journal 3 - 1976
Journal 4 - 1977
Journal 5 - 1979
Journal 6 - 1980
Journal 7 - 1981

To Restore the Lands,
Protect the Seas,
And Inform the Earth's Stewards
And Inform the Earth's Stewards

In addition to the seven Journals of the New Alchemists, the activities and research of New Alchemy were published in Research Reports, Technical Bulletins, Working Papers, Quarterlys (1980-1990), Progress Reports on Solar Aquaculture, books, posters, films, and articles in media. This information embodies the design-DNA that will enable the creation of ecologically-derived human support systems to direct the course of humankind towards a greener, saner world.

SOLAR AQUACULTURE: Perspectives in Renewable, Resource-Based Fish Production
A Report to the National Science Foundation (151 pp.) September 1981.
[ this is a final report summarizing all research & computer modelling of solar pond aquaculture up to June, 1982 ]
Ron Zweig (co-principal investigator)  Robert Angevine (administrative officer)
John Todd (co-principal investigator)  Albert Doolittle (computer monitoring specialist)
John Wolfe (ecosystem analyst)        David Engstrom (water chemist)

Six progress reports were written as background to the above final report:

"Assessment of a Semi-Closed, Renewable Resource-Based Aquaculture System"
Progress Report No. 2  [not found]
Progress Report No. 3 - May 20, 1979 . 134 pp. (experiments from April 1978 to April 1979)
+ 14 appendices re: solar pond aquaculture, including:
   I Instrumenting the Arks. by Albert Doolittle & Charles Rockwell.
   II. Looking for a New Aquaculture: The Roads Ahead. by John Todd
      by John Todd & John Wolfe.
   X. The Energetics of Solar Pond Aquaculture. by John Wolfe

Progress Report No. 4 - December 7, 1979 (experiments from May 1979 to Sept 1979)
Progress Report No. 5 - September 22, 1980
Progress Report No. 6 - Part 1 Experimental Data - June 30-1982
Progress Report No. 6 - Part 2 Computer Simulation Model  September 1981
RESEARCH REPORT 1. An Economic Comparison of Four 10,000-Square-Foot Food-Producing Greenhouses for Cape Cod, Massachusetts. April 1986. 19 pp. by Norm Marshall


RESEARCH REPORT 4. (not found)


RESEARCH REPORT 7. Laboratory and Field Application of Entomogenous Nematodes for Control of Insect Pest Species-Part One - Literature review. 1986. 19 pp. by Dave Simser.

RESEARCH REPORT 8. Lab and Field Trials 1987: Nematodes

RESEARCH REPORT 9. Lab and Field Trials 1989: Nematodes


MISC. RESEARCH REPORTS:


MISC RESEARCH REPORT 5: The New Alchemy House: An Example of Sustainable Design" by John Quinney and Donald Watson

TECHNICAL BULLETINS:

5. Designing Sustainable Small Farms & Homesteads. by John Quinney 12 pp. (a reprint from Mother Earth News July/August 1984)
9. Toxins In the Home and Safe Alternatives. 22 pp. Maureen Mc Clelland
10. Gypsy Moth Control
QUARTERLY: [ 1980 – 1990 ]

New Alchemy Quarterly : [ plus selected articles]


   — Gardening in Fertile Waters by Carl Baum
   — Bioshelters – Pillowdomery by J. Baldwin
   — Bioshelter. by John Wolfe
   — Relative Insulating Properties of Gases. by Joe Seale
   — Costa Rica: A Report from N.A.I.S.A. by Wm. McLarney
   — Aquaculture - Hydroponics in the Ark. by Peter Burgoon
   — Tefzel
   — The Pillow Dome Opening: The Modern Age of Bioshelters Begins. by Gary Hirshberg
   — The Latest Year of Research on Bioshelters: A Summary. by John Wolfe
   — [Fish] Breeding in Bioshelters. by Linda Gusman
   — Bioshelters: How’s the Dome Project doing? by J. Baldwin
   — Heat Transfer with Insulating Gases. 12 pp. by Joe Seale
   — Farming Black Locust and Bamboo on Cape Cod. by Earle Barnhart
   — Notes from the Winter Dome. by Daryl Bergquist
   — Overall, the Pillow Dome is working well. by Daryl Bergquist
  -- The Composting Greenhouse for Commercial Regenerative Agriculture. by Bruce Fulford
  -- Some New Ideas for Residential Bioshelters. by Earle Barnhart
  -- Working to Breed a Better Predator. [greenhouse IPM] by Colleen Armstrong.
  -- How Warm are Our Bioshelters? by Daryl Bergquist.
  -- Seasonal Aquaculture: Outdoor Summer Production. by Ron Zweig & Linda Gussman
  -- The Economics of Integration: The Composting Greenhouse as a Case Study. by Bruce Fulford.
  -- Why Aquaculture? by Wm. McLarney
  -- A Simple Demand Feeder for Fish Cage Culture. by John Hargreaves.
  -- Evaluation of Biological Islands for Control of Greenhouse Whitefly. by Richard Meadows.
  -- An Aphidoletes aphidimyza Update. by Colleen Armstrong
  -- The Economics of Food-Producing Greenhouses in the Northeastern United States. by Norm Marshall
  -- Our Superinsulated Auditorium: Monitoring Results summary. by Bill Smith.
  -- Lessons Learned from an Established Edible Landscape. by Earle Barnhart.
  -- Composting Greenhouse Update. by Bruce Fulford
  -- Hard Choices in Building Design [the New Alchemy House]
   - Composting Greenhouse Design Update. by Norm Marshall
   - Refurbishing the Ark. by Mark Ward
   - Nitrogen in the Composting Greenhouse by Mark Schonbeck.
   - Nitrate in Winter Greenhouse Leafy Vegetables. by Mark Schonbeck
   - New Alchemy's Green Classroom. by Judy Salisbury
   - Ecosystems for the Classroom. by Earle Barnhart
   - Composting Greenhouse Update. by Mark Schonbeck.
   [ an overview of New Alchemy from 1969 to 1989 ]
   - Growing Mulch in Place. by Mark Schonbeck & Ralph DeGregorio
   - The Future of Entomogenous Nematodes and the Modern Insect Pest. by Dave Simser
   - Cover Crops at a Glance. by Mark Schonbeck & Ralph DeGregorio
   - Cutting Off the Nitrate Supply. by Robert Rivera, Mark Schonbeck & Ralph DeGregorio
   [ nitrates in winter-grown greenhouses leafy vegetables ]
   - Cover Crops for Weed Control in Lettuce. by Mark Schonbeck, Judy Browne, & Ralph DeGregorio.
NEW ALCHEMY BOOKS:


A Guide to Home Food Production 1982. 176 pp. by staff of New Alchemy. publ. by Cape & Islands Self-Reliance Corp A Teacher’s


BOOKS BY NEW ALCHEMISTS – OTHER PUBLISHERS:


Bioshelters, Ocean Arks, City Farming: Ecology as the Basis of Design. 1984. by John and Nancy Todd

From Eco-cities to Living Machines 1994. by John and Nancy Todd

   (A final report to E.I. duPonde Nemours & Company, Inc.)
3. Biothermal Energy: cogenerants of thermophilic composting and their integration within food-producing
   (reprinted from Proceedings of the First Intl Conf. of Composting of Solid Wastes & Slurries, Leeds England)
4. Year-round vegetable growing in Massachusetts: an economic comparison of a hydroponic greenhouse
   and a composting greenhouse. May 1984. by Rob Lichtman
5. Studies on the suitability of several sages and scented geraniums as host plants for greenhouse whitefly
   (A final report to the Massachusetts Society for Promoting Agriculture)
7. Non-chemical pest control for year-round food production in cold climates: research and education. April 1986
   Colleen Armstrong and John Quinney. (A final report to the C.S. Fund)
    (masters thesis, Antioch New England)
11. The New Alchemy Institute superinsulated auditorium: monitoring results – a low-cost computer monitoring system
    for superinsulated buildings. Fall 1985. Bill Smith, Daryl Bergquist, & Joe Seale
   Daryl Bergquist, Bruce Fulford, Norm Marshall, and Rick Baruch.
23. (not found)
24. (not found)
25. (not found)
   by Kurt Teichert, Mark Schonbeck, Bruce Fulford, Daryl Bergquist, Lee Goodell

REPORTS ABOUT THE ARK ON PRINCE EDWARD ISLAND, CANADA
   (the Ark on PEI was built by New Alchemy PEI in 1976, and operated by NAI PEI until 1978.
   The PEI Canadian provincial government then managed it until June 1981.)

   By John Todd, Robert Angevine, Solsearch Architects, Tyrone Cashman.

POSTERS:
"THE ARK - an early exploration in weaving together the sun, wind, biology, and architecture on behalf of humanity"
   by Solsearch Architects & New Alchemy Institute. 20"x28", 2 sides.
   (Full color exterior photograph on one side, architects’ drawing of the interior and how it works on the other side.)
"The P.E.I. Ark" by Solsearch Architects, Charlottetown, PEI, Canada. 22"x30"
   "This poster updates the design description in the Journal of the New Alchemists (3). 1976."

Earle Barnhart
FILM:

*"The New Alchemists"* 1974. National Film Board of Canada, Montreal. 16 mm. color 106C 0174 157 28 minutes 40 seconds.

*"New Alchemy: A Rediscovery of Promise"*. 1984. by Lawrence Burke, Flying Cloud Moving Pictures. (54 minute or 27 minutes) "A portrait of the people and place which make up the New Alchemy Institute, one of the world's pioneering appropriate technology research centers." Shows research and education about solar energy, ecology, aquaculture, organic farming and environmental design.

ARCHIVED PUBLICATIONS:
Additional records of the New Alchemy Institute are located at Iowa State University Library, Department of Special Collections, 403 Parks Library, Iowa State University, Ames, Iowa, 50011-2140. (correspondence, minutes, publications, and other materials, from 1970-1991.

OTHER PUBLICATIONS BY NEW ALCHEMISTS:

*Annals of Earth*  *Annals is a publication of Ocean Arks International. Edited by Nancy Todd, it describes on-going work by New Alchemists or related ideas about ecological sustainability. Ocean Arks International, 176 Battery Street, 3rd Floor, Burlington, VT 05401

SELECTED MAGAZINE ARTICLES ABOUT NEW ALCHEMY in the mid-1970's:


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