TWS.A1190C.WILPF 5/18/91 CSIRI #A-1190-C

A PROPOSAL TO REPLACE THE 6000-YEAR PATRIARCHAL SOCIOLOGICAL SYSTEM WITH THE PARTNERSHIP WAY TO OBTAIN WORLWIDE PEACE AND FREEDOM IN TWENTY YEARS THROUGH THE USE OF CYBERNETIC SYSTEMS CONCEPTS.

(A Rough Draft of Source Materials for Use in Developing a Program for Peace and Freedom.)

Fred B. Wood, Sr.

Abstract

This proposal is being offered to the Womens' International League for Peace and Freedom, National Organization for Women, The Center for Partnership Studies (Pacific Grove), San Jose Peace Center, AHA Feminist Caucus, San Jose Unitarian Church Social Concerns Committee, Santa Clara Council of Churches Social Education and Action Committee, and others.

My objective is to first show that the natural geological processes amplified by man-made ecological crises could wipe out all the gains made in womens' liberation of the last one humdred years.

Second I wish to show that the concepts of "cybernetic systems" could be used by all groups working for peace and freedom to plan a "change agent" program that would speed up the achievement of womens' rights all over the world that would make the brain power of the women of the world available for analysis and action on world problems.

Third I wish to point out that computer simulation programs used to train business managers to manage factories and business sales organizations could turned around to help peace workers to learn how to organize more efficiently for world peace.

Fourth, I wish to point out that there are analogies from thermodynamics and information theory that lead to a measure of social progress that includes a balance between diversity and stability which I tentatively label as "socionegentropy." It is possible that sociologists have developed a better term for this measure. If so, I will consider changing my terminology.

Fifth, it appears that approximate calculations of the possible contributions of different paths of social action yield the largest contribution to increasing "socionegentropy" by restoring the womens' rights that were abolished 6000 years ago, and the second largest contribution could be from the freeing of men from restraints of the partriarchal system enabling the men to speak out freely about their basic human feelings for social justice.

Sixth, modern computer simulation techniques could be used to visualize a two stage plan of action:
(1) A three year period of organizing and training, and
(2) A 17 year plan of social action using the concepts of "cybernetic systems," adding up to 20 years for the total program.

In the last 2.5 million years the human brain has evolved to a larger brain at the approximate rate of 20 cubic centimeters per 100,000 years. This is approximately the frequency of the glaciation cycle in the current Ice Epoch. In this evolutionary process a large fraction of the humans on earth have been exterminated by the people with larger brains (higher intelligence) during each 100,000 year glacial cycle. Ten thousand years ago our ancestors used their larger brains (and higher IQ) to develop a more peaceful and equitable society.

Six thousand years ago the peripheral tribes living closer the edges of the retreating glaciers succeded in domesticating horses, which quickly gave them the military advantage of being able to outmaneuver the foot soldiers of the agricultural villages. The male leaders of these peripheral tribesmen then got the idea of moving on from domesticating horses to domesticating the women of their own species in the agricultural villages. The Kurgans successfully converted Persia, Asia Minor and Old Europe into a patriarchal system. The peaceful type societies survived for a thousands of years on islands like Crete isolated by the Mediterranean Sea and Meros Island on the Nile between Egypt and Ethiopia.

We are now near the end of the current interglacial warm period. Moving into the next glacial cycle or moving out of the current Ice Epoch would cause catastrophic climate changes that would shorten the crop growing seasons in most of th world, leading to billions of people dying of starvation. This would in turn lead to the collapse of most governments and other social institutions pushing the world back to bararism in which all the gains in women's rights of the last 100 years could be lost.

I shall explain more of how we can use the concepts of "cybernetic systems" to change the course of history. At present I am attaching a number of papers with important source material as follows:

A-1098-E 7/9/90 "Enginering Philosohy of Combining Top-Down and Bottom-Up Systems Analyses of Climate Change" ....pages 20-26.

A-951-A 3/3/88 "The GAIA Hypothesis and Nine Threats to the Survival of Civilization." ..... pages 27-28.

A-899 3/21/87 "Proposal for Adult Education Seminars." .... pages 29-30.

Supplemental information can be found in;
HANDBOOK for a SHAREABLE STRATEGY of COEVOLUTION with the BIOSPHERE, Fred Bernard Wood, Ph.D., Editor, Edition 2.5A, Sept. 14, 1990, 134 pages (including some blank pages), Price $9.00

1989

This is a copy of your ad as it appeared in the ~~1990~~ WILPF Banquet program book. Please review the ad for accuracy and currency. If the ad can be used unchanged (camera-ready), the price will be less than if it must be modified.

Please see the ad sample page for size and price differences. THE DEADLINE FOR RETURNING THE AD COPY IS FEBRUARY 26, 1991. ADDRESS: W.I.L.P.F. 3349 Weepingcreek Way, San Jose, CA 95121. Thank you!

Congratulations to WILPF on your long record of SOCIAL CONSCIOUSNESS for PEACE and FREEDOM. May I suggest adding a touch of GEOPHYSICAL CONSCIOUSNESS and BUSINESS DECISION THEORY to prevent future catastrophe.

Fred Bernard Wood, 2346 Lansford Ave.
San Jose, CA 95125 (408) 723-7818

The death of 2,000,000,000 people on planet earth due to geophysical processes such as climate change during the next 20 years could destabilize almost all social institutions and wipe out all womens's rights gains made in the last 100 years.

REGRET MATRIX FOR CLIMATE CHANGE AND STARVATION WORLDWIDE.

Estimated Worldwide deaths from starvation on planet Earth from 1988 to 2001 for different states of nature and different actions taken. We do not have scientific proof of which state: a, b, or c is going to occur. The presently available mixed scientific, engineering, and anecdotal evidence indicates probabilities of the three states occuring as follows:

Approximate Probabilities: P(a)=75% P(b)=10% P(c)=15%

TABLE OF NUMBER OF PEOPLE DYING IN NEXT 20 YEARS FROM STARVATION UNDER CONDITIONS a,b, or c ACTIONS ! ! V V	STATES OF NATURE FOR CLIMATE/STARVATION a INITIAL WARMING, FOLLOWED BY GLACIATON SOON, causing severe climate changes & crop failures	b WORLD TEMPERATURES REMAINING AT PRESENT LEVELS	c WARMING ONLY PROCEEDING NOW
DO NOTHING	2,000,000,000	24,000,000	12,000,000
REMINERALIZATION & REFORESTATION STARTING NOW	250,000,000	12,000,000	12,000,000
REMINERALIZATION & REFORESTATION STARTING IN 5 YEARS	1,200,000,000	12,000,000	12,000,000
DISCONTINUE BURNING OF FOSSIL FUELS	1,000,000,000	8,000,000	8,000,000
REORGANIZE DISTRIBUITION OF FOOD	1,000,000,000	8,000,000	8,000,000
GROW SPIRULINA ALGAE FOR FOOD	700,000,000	6,000,000	6,000,000

Women's International League
For Peace And Freedom

Tenth Annual
Peninsula/San José Branch
WILPF Benefit Banquet

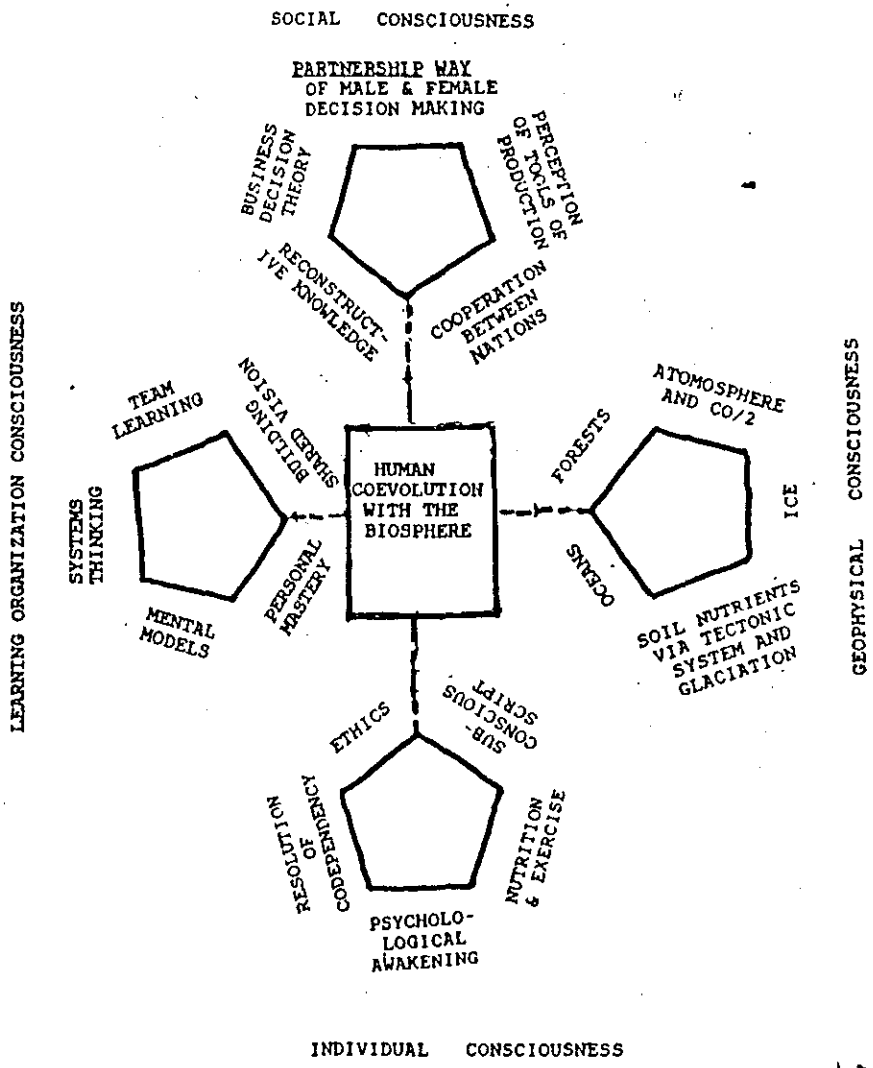
First Baptist Church
305 N. California Avenue
Palo Alto, California

Saturday, March 23, 1991

Congratulations to WILPF on your 76 YEARS of SOCIAL CONSCIOUSNESS for PEACE and FREEDOM.

You can speed up your accomplishments for PEACE and FREEDOM by applying a quasi-completeness test to the program of WILPF in which you consider: GEOPHYSICAL CONSCIOUSNESS, INDIVIDUAL CONSCIOUSNESS, & LEARNING ORGANIZATION CONSCIOUSNESS, in additon to your SOCIAL CONSCIOUSNESS. A diagram of four pentagons of major components of the above types of consciousness is shown below. Write or telephone for a reference list.

Fred B. Wood, Sr. (III), 2346 Lansford Ave.
San Jose, California 95125. (408) 723-7818



Draft

CSIRI # A-1190-A
2/20/91

A Proposal for Systems Consulting to Women's Organizations for Converting the 5000-year old Patriarchal System to the Partnership Way in 17 years.

Fred Bernard Wood

In 1986 I made proposal similar to this in a paper at the Society for General Systems Research annual meeting in Philadelphia. (1) In 1986 LWV, NOW, & WILPF did not show any enthusiasm for the proposal. I reformulated this proposal in a new format in my 1990 ISSS paper at Portland, Oregon, I developed a "triple-pentagon" (2) representation of the major elements involved in developing a successful program to establish the "Partnership Way" of Riane Eisler and David Loye (3)

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(1) Fred Bernard Wood, "A Hypothesis on Geophysical Cycles, Techno-Sociological Evolution and World Peace", 8 pages (3 page abstract in proceedings)

(2) Fred Bernard Wood, "Engineering Philosophy of Combining Top-Down and Bottom-Up Systems Analysis & Client Change" July 1990.

(3) Riane Eisler and David Loye, 2 books, 8 sci articles, and 2 short articles.

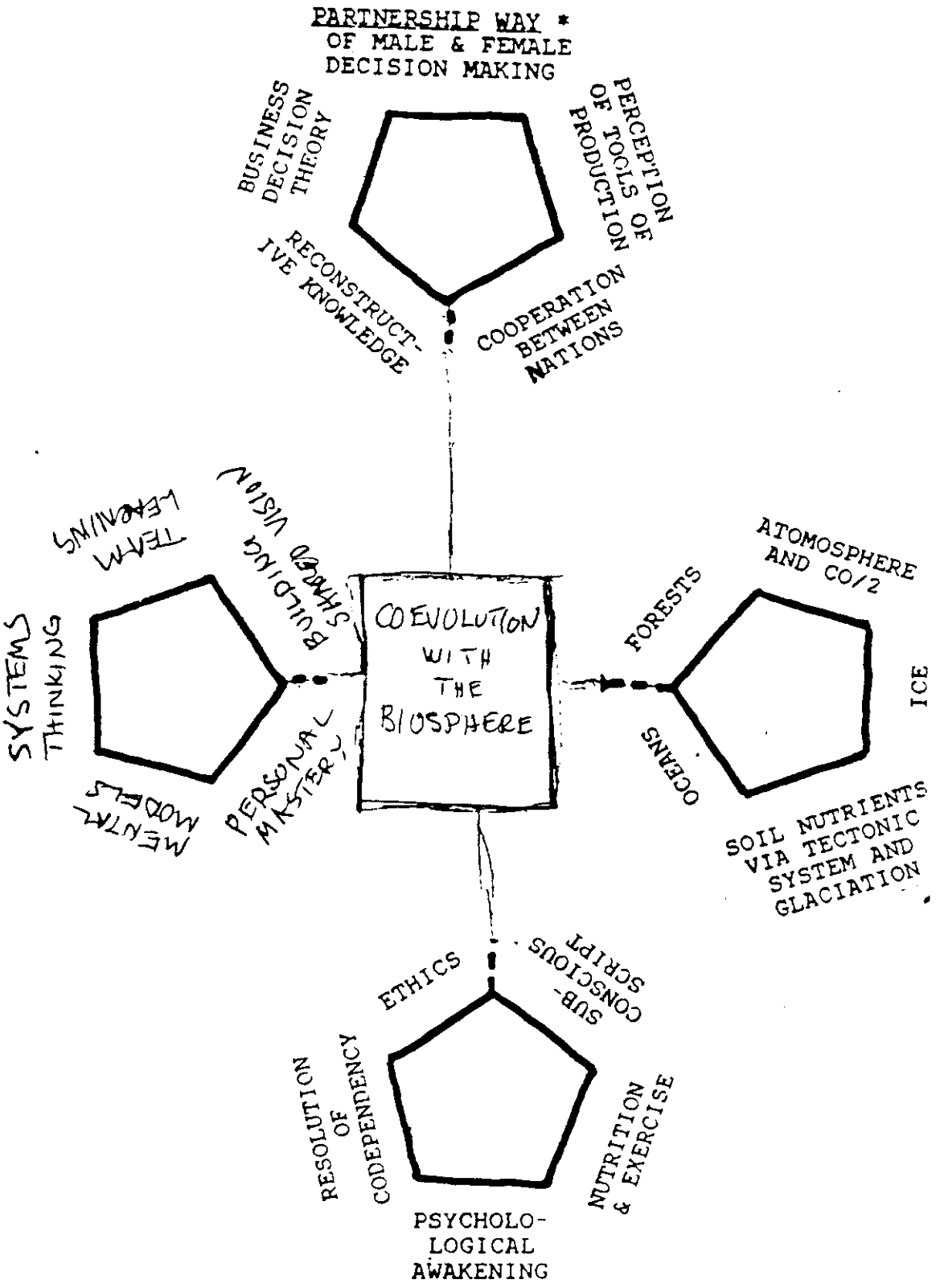
This study applies both "system science" and "system mythology" to the patriarchal social systems established approx 6000 years before present. Some clients in the mode of Peter Senge's book System Thinker, System Practice have asked how do we replace the ~~the~~ patriarchal system with the Partnership (Eisler Design) system on planet Earth.

In 1990 a new book was published on how to reorganize a project, corporation or government agency as "learning organizations." The Fifth Discipline (4)

The attractive idea now is to connect "Learning Consciousness" with the three consciousness' in my Portland paper "Individual Consciousness" "Social Consciousness" and "Geophysical Consciousness" This is illustrated in Fig 2, "Quaternary Pentagram of Consciousness"

(4) Peter M. Senge, The Fifth Discipline - The Art & Practice of the Learning Organization NY: Doubleday - Currency (1990) 424 pgs

SOCIAL CONSCIOUSNESS

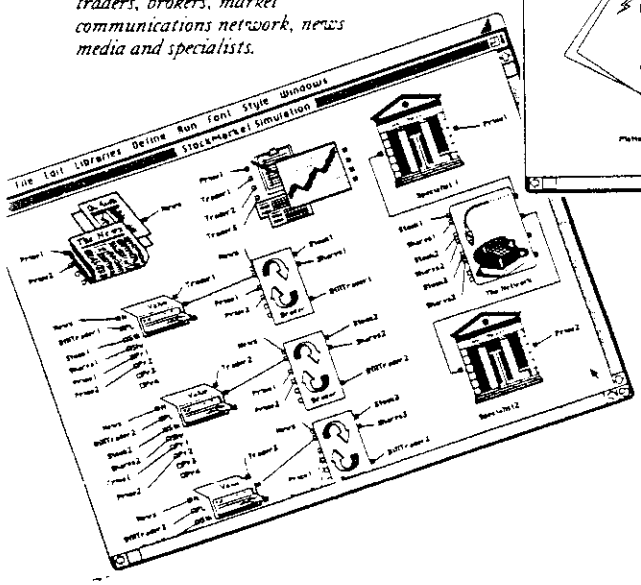


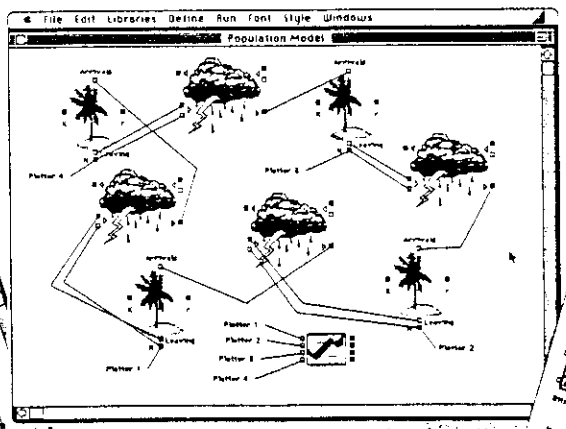
INDIVIDUAL CONSCIOUSNESS

Be the First on Your Block to Run a Factory.

And Boldly go Where No one has gone Before.

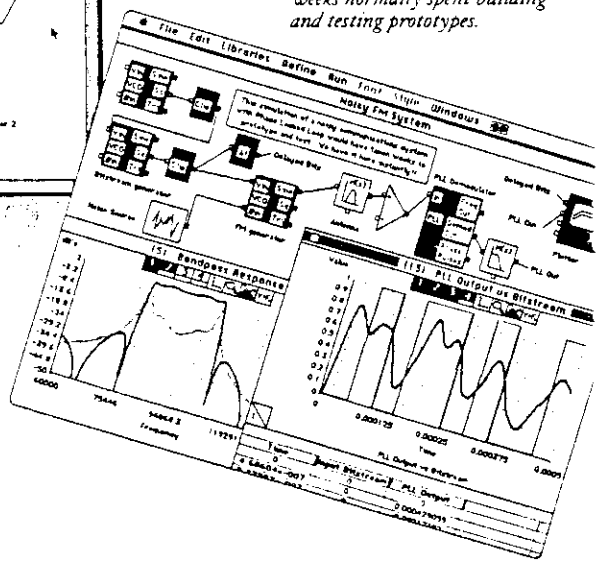
Stock market analysts observe different scenarios with Extend. Blocks model the functions of traders, brokers, market communications network, news media and specialists.





Survival factors for subpopulations emigrating between island ecosystems are being identified by conservation biologists using Extend.

Engineers use Extend to model digital FM transmissions under varying noise conditions, saving weeks normally spent building and testing prototypes.



REPRINTED FROM

20 June 1989

MacWEEK

WORKSTATION NEWS

Extend improves on simulation modeling

By David Sternlight

Simulation modeling, long the domain of mainframe computers, has gradually filtered down to the personal computer arena, with improved results. Extend, a dynamic model generator from Imagine That!, uses graphic representations of the building blocks of systems as well as graphic output. That's a far cry from traditional mainframe programming language input and tabular output.

Time- or frequency-dependent models can be used to simulate the behavior of almost any system, such as manufacturing processes, inventory and cost control procedures or hospital patient flows. Results of such simulations can validate ideas, maximize performance or cost ratios, and diagnose potential design problems.

Imagine That Inc.
7109 Via Carmela
San Jose, Calif. 95139
(408) 365 0305

List price: $495

- ✚ Extremely powerful simulation generator with block library capability; extensive function set; customizable Mac user interface.
- ➖ Requires in-depth understanding of system being modeled (a characteristic of the technique, not the program); no tutorial material provided on model building methodology.

Extend building blocks. Models created in Extend consist of inter-connected blocks representing basic system functions. The connections, which may be multiple and complex, represent inputs and outputs to the blocks. Each building block is driven by its inputs to produce its outputs. Extend models operate in an object-oriented fashion: Each block "does its thing" as the model is run, receiving "signals" from other blocks at its inputs and transmitting "signals" to other blocks via its outputs.

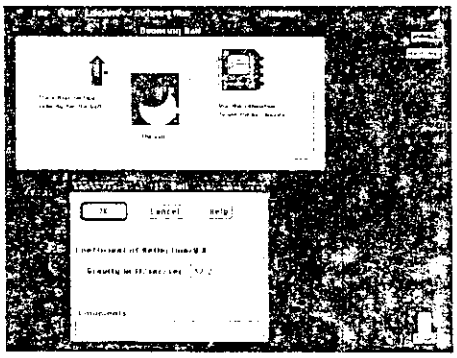
To avoid complex web-like paths on the model sheet, output signal paths may also terminate in a name, which can then appear elsewhere on the sheet as the source for an input path. In addition to user-specified signals between blocks, system messages are generated to inform each block of the state of the simulation.

Using Extend. There are three levels of Extend use. The first consists of taking an existing model and varying its parameters for system tuning or analysis. The second involves assembling a model from Extend's extensive library of supplied blocks. Finally, you can build blocks from scratch, using Extend's C-like MODL language.

Two windows are used in block construction. One is for designing the block's parameter dialog box, while the second is used to design the block's structure, including its icons, variables, help text and equations.

When you click on a model block, a dialog window opens to permit parameter definition. These block dialogs are customized during design of the block and can include edit fields, push buttons, radio buttons and check boxes. Dialog windows can also perform calculations, handle tables, and take parameter and text input.

A variety of output blocks are available, including graphs and tables. Different colors or line characteristics may be selected for each variable to be displayed in a graph. A table of numerical values of the variables is also provided, and when you move the cursor to any point on the graph, such as a minimum or maximum, the values at that point are shown.



Created with Extend, the dialog window for the Ball block of this tutorial model of a bouncing ball includes both numerical edit fields and user-defined buttons.

More than one "case" may be run during a particular model session. Cases appear as separate pages that can be flipped through. Graph axes can be changed, and plots can be expanded and compressed for additional viewing flexibility.

The MODL simulation language. The MODL simulation language is a C-like structured object-oriented language. Using MODL, block designs specify what to do with input signals and what to provide at outputs. These scripts are embedded in 11 message handlers, such as On Simulate, On DialogOpen and On CheckData, which give the model its object-oriented, asynchronous power.

On OK is a particularly powerful handler; it can be used to produce calculations or actions within a dialog window itself, independent of running the simulation. For example, the supplied lease/purchase simulation includes a button that produces an amortization table.

The MODL language includes an extensive set of error messages, operator and control statements, and more than 150 built-in math and statistics func-

tions. User-defined functions can also be created.

Library system. A powerful and highly user-friendly library system keeps track of the extensive collection of pre-defined blocks supplied by Imagine That! with Extend, as well as user-defined blocks. Block definitions are stored in the library system and transparently invoked by the work sheet on opening. Pre-defined block libraries include curve-fitting, distribution, earthquake, ecosystem, factory, lease, physics, queueing, Wall Street and plotter models.

User friendliness. Extend includes a clear tutorial that uses its examples models of a lemonade stand and a home heating system. The manual is well-organized, and on-line help is provided. Technical support for registered users is a toll call, but a free quarterly newsletter is provided.

Customizing and editing models in Extend is easy with editing features for scripts, and good display and printing options are available. Extend can import and export data via the Clipboard or tab-delimited text files. The powerful block management library with automatic searching is very convenient for generating and maintaining systems of models. Models may be simulated in the background under MultiFinder, a very convenient feature for larger, more time-consuming models. No bugs were noted during the review process.

Despite its ease of use, Extend is not for beginners. Simulation model building requires careful thinking and analysis of the system to be modeled. Modeling is usually a subject for advanced undergraduate engineering and management science courses. No tutorial material is provided with Extend on model-building philosophy or methodology beyond that appropriate to operating Extend itself. This represents a major omission for novices.

A new release of Extend is in development. Version 2.0 will include manufacturing and material-handling libraries, a generic library containing generalized blocks, hierarchical capabilities and animation.

Conclusions. Extend is a highly recommended powerful, professional simulation modeling tool for engineers, management scientists, analysts and consultants. In terms of features, it is among the most powerful of such tools, regardless of computational platform. Very large models may benefit from faster machines, including mainframes and future models of the Mac. It carries our highest recommendation for professionals and advanced students. However, because of the complex and challenging intellectual nature of simulation model building, Extend or any other simulation modeling tool is not recommended for use by novices without guidance, except as a tool for learning and exploration.

Introductory Works on Modeling and Simulation

Curt McNamara
ISSS Conference, Portland, 1990

Cellular Automata Machines: A New Environment for Modeling, by Toffoli & Margolus. MIT, 1987

How to Model It: Problem Solving for the Computer Age, by Starfield, Smith, and Bleloch. McGraw-Hill, 1990

Mathematical Modelling: Methodology, Models, and Micros, by Berry, Burghes, Huntley, James, & Moscardini, eds. John Wiley, 1986

Models of Reality: Shaping Thought and Action, by Richardson, ed. Lomond, 1984.

Simulation using Personal Computers, by Carroll. Prentice-Hall, 1987

Systems Simulation, by Shannon. Prentice-Hall, 1975

Texts with accompanying software

Explorations in Parallel Distributed Processing. A Handbook of Models, Programs, and Exercises, by McLelland & Rumelhart. MIT, 1988. MS-DOS and MAC

Discrete Simulation: Fundamentals and Microcomputer Support, by Curry, Deuermeyer, & Feldman. Holden-Day, 1989. MS-DOS

Interactive Dynamic System Simulation, by Korn. McGraw-Hill, 1989. MS-DOS

Storm: Qualitative Modeling for Decision Support, by Emmons, Flowers, Khot, & Mathur. Holden-Day, 1989. MS-DOS

Modeling Software

Extend, by Imagine That. 151 Bernal Road, Suite 5, San Jose, CA 95119. (408) 365-0305. MAC

Stella, by High Performance Systems. 13 Dartmouth College Highway, Lyme, NH. 03768 (603) 795-4857. MSDOS

Tutsim: Block Diagram Simulation Language, by Applied I. 200 California Ave., Palo alto, CA. 94306 (415) 325-4800 MSDOS