

GEO-SOCIAL-INDIVIDUAL ACTIVATING
SYSTEMS THEORY

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An outline of the major projects needed to help the United States of America use Systems Theory to find its goals, evaluate its resources, and Coevolve with the Biosphere to the next step in civilization. Systems research leads to the view that the present stage of the evolution of human civilization requires a synthesis of geo-physical consciousness, social consciousness, and individual consciousness.

A central theme to be carried out through these projects is the question of what are the possible alternative climate change scenarios, how do we test the different alternative scenarios, can elements of the scenarios be simulated by computer, and how do the different scenarios impact human civilization? How do the geophysical realities and our ethics interact?

It is proposed that the Computer Social Impact Research Institute change its mode of operation to develop a larger membership base and cooperate with other organizations through computer assisted cooperative projects which extend the application of general systems theory to problems of the evolution of human civilization. In addition to the technical work the revised program will require considerable development of systems education materials to help the layperson understand systems theory.

- 1) Present these twelve projects to the Board of Directors.
- 2) Define areas of overlap with Earth Regeneration Society on topics of Climate Change and Reforestation of the Earth.
- 3) Present particular projects to the Adult Education Committee of the First Unitarian Church of San Jose for joint meetings on the topics. Put announcement in Unitarian Church Bulletin to invite people to join CSIRI.
- 4) Schedule membership meeting of CSIRI to confirm present plans and to hold election of officers.
- 5) Define areas of overlap and differences with CPSR and develop basis of cooperation with CPSR.
- 6) Define areas of overlap with IEEE SSIT program and develop basis of cooperation.
- 7) Define areas of overlap with WILPF program and develop basis cooperation.
- 8) Define areas of overlap with Hastings Institute (Medical Ethics) and develop basis of cooperation.

9) Define areas of overlap with Partnership Way groups and NOW groups and develop basis of cooperation.
10) To avoid trying to reinvent previous advances in applying general systems theory to the problems of our civilization, it is proposed that each of twelve projects be periodically reviewed for relevance of work of other members of the International Society for the Systems Science. To help impliment this a list of officers and special integration groups of ISSS are included in Appendix A. Dialog computer searches of library indices are planned on topics and authors to assist this process.

More correspondence is proposed with foreign associates such as Carlos Aliaga in Bolivia in connection with his concept of spiral diagram to illustrate the rise and fall of civilization; with Carlo Vitali in Italy on bringing computer technology to Southern Italy; with Roberta Vitali in Italy on relating stress and decision theory in business organizations; and with senior citizens groups like Gatekeepers in Marin County, California, who are working to define how senior citizens can direct focus on the ethical problems of our future civilization; and send summaries of reports to the paper network on Future Civilization that is a spin-off from Robert Theobald's networking system.

More useage of computer communications networks is proposed: EcoNet en.climagte; SeniorNet on AOL; Berkeley Community Memory; FCNL on Compuserve and PeaceNet; WILPF on PeaceNet; etc.

The success of this program depends upon first activating key components compatible with the number of people available to do volunteer on the projects, and second an active program to discuss these projects with the other groups indicated to interest more people.

PROJECT ONE: ORGANIZE A THREE-DIMENSIONAL VIEW OF OUR RESOURCES FOR CO-EVOLUTION WITH THE BIOSPHERE. (Evolution and Cycles; Levels of Phenomena; Modalialties of Function; Geo-Social Planetaria; Computer Simulation; and 3-Dimensional Library Structure.)

PROJECT TWO-G: STATUS OF COMPUTER SIMULATION OF LARGE COMPLEX SYSTEMS (Status of computer simulation of different size systems in regard particularly to the climate change problem:

- a) Simple, Medium, and Large Complex Systems.
- b) Simulation languages: Fortran, Basic, QBasic, C, Dynamo, Stella, Extend.
- c) Examples of Simple Simulations.
- d) Examples of Medium Complexity Simulations.
- e) Examples of Large Complex Simulations.
- f) Computer Simulation Principles and Standards:

- 1) Society for Computer Simulation.
- 2) American Society for Cybernetics.

PROJECT THREE-E: SYSTEMS APPROACHS TO EDUCATION. (The history of general systems theory and education. Analysis of of education process under general systems theory, developing plans for improving education through using GST.)

PROJECT FOUR-F: SYSTEMS APPROACHS TO BUSINESS MANAGEMENT. (The overlap of general systems theory and operations researchn to provide a method of analysing business management and to organize decision making in business including the fifth dimension. (Singe)).

PROJECT FIVE-F: A SYSTEMS APPROACH TO POLITICAL ACTION: ABSTRACT THE MOST IMPORTANT FIFTEEN ELEMENTS INTO THE "THE TRIPLE PENTAGON" RELATING INDIVIDUAL POLITICAL ACTION TO THE GENERAL SYSTEM OF CIVILIZATION. (Individual, Social, and Geophysical Elements.)

PROJECT SIX-F: DEVELOP AN UNDERSTANDING OF HOW THE GEOPHYSICAL CYCLES OF CLIMATE CHANGE IMPACTED THE EVOLUTION OF THE HUMAN BRAIN AND STAGES OF CIVILIZATION. (Lucy through 21 echelons (100,000 years per echelon) of brain development, Eve for 2 echelons, domestication of horses, domestication of women, and 6,000 years of patriarchy)

PROJECT SEVEN-F: EVALUALTE HOW THE "PARTNERSHIP WAY" GIVES A PRACTICAL APPROACH TO ACHIEVING THE THEORETICAL GOAL OF MAXIMIZING "SOCIAL NEGENTROPY." (History and status of concept of social negentropy.)

PROJECT EIGHT-F: STABILIZATION OF THE CLIMATE THROUGH A MANAGED CARBON DIOXIDE BUDGET WITH ALTERNATIVE ENERGY SOURCES AND REFORESTATION. (Input-Output Table Based)

PROJECT NINE-F: DEVELOP A THEORY OF EVOLUTION OF THE NEXT STAGE OF COOPERATIVE CAPITALIST CIVILIZATION WITH INDICATIVE PLANNING. (Quaker Gurani Indian Myth and Leontiev Matrices with economic stability equations from Keynesian and Marxian theory.)

PROJECT TEN-F: CONVERSION OF A SIGNIFICANT PART OF THE MILITARY ESTABLISHMENT INTO AN EARTH REGENERATION CORPS TO MANAGE AND CARRY OUT REFORESTATION PROJECTS. (Military can help carry out segments of the climate stabilization bill proposed by Congressman Dellums.)

PROJECT ELEVEN-F: DEVELOP EQUITABLE POLICY FOR RELATING TO THIRD WORLD DEVELOPING NATIONS THROUGH EMERGY ANALYSES. (General Systems Analysis of Economic Development using concept of Embodied Energy or "Emergy.")

PROJECT TWELVE-G: SYSTEMS SCIENCE AND THE MANY FACES OF
ENTROPY. (The history and status of the concepts of entropy
in physics and negentropy in sociology.)

Appendix A: Check List of Current Activities of the
International Society for the Systems Sciences.
(Journals, Books, Commissions, Symposiums, and Special
Integration Groups)

Appendix B: Book List for Geo-Social-Individual Planaterium
System. (Special Bibilography.)

APPENDIX C: RE-ORGANIZE THE COMPUTER SOCIAL IMPACT RESEARCH
INSTITUTE OF SAN JOSE TO BECOME ACTIVE AS A GROUP TO
IMPLIMENT THESE PROJECTS.

* 12/22/91 FBW Rev. 12/23/91 ProjectList3
12 29/91 12/30/91 01/02/91 ProjectList5