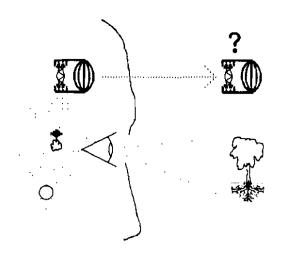
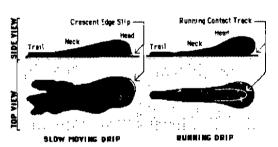
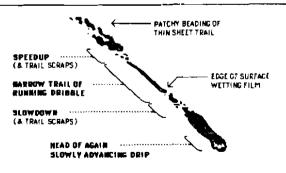
### WHAT MAKES NATURE WORK ?



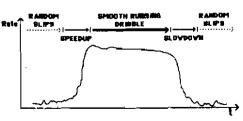
- SUBJECT
- IMAGE
- APPETITE FOR KNOWLEDGE
- VIRTUAL STRUCTURE
- PROJECTION OF CAUSES (HOW WE UNDERSTAND)
- PROPOGATION OF CAUSES
  (HOW WHAT WE UNDERSTAND WORKS)



. CONTACT EDGE AND DRIP SHAPE COMPARISON .



THE REMAINS OF A WATER DRIBBLE



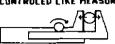
· CONCEPTUAL DRIBBLE FLOW RATE

### **CONSTRAINTS?**

ANIMATED GLOVE ?

CONTROL IMPOSED FROM A SYSTEM'S BOUNDARY ?

CONTROLED LIKE MEASURES ?



APART FROM CONSTRAINTS, BEHAVIOR IS INCHOHERENT THE SAME WAY UNCONSTRAINED MEASURES ARE ?

ANIMATED HAND ?



OPPORTUNITIES ?

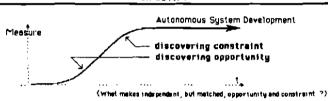
ACTIVITY STEMS FROM USE OF CONTEXTUAL OPPORTUNITY ?

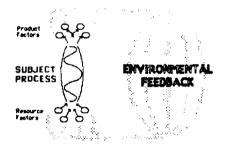
INDEPENDENTLY ASSERTIVE ?



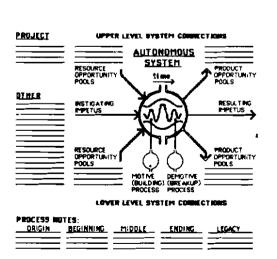
MATURAL BEHAVIOR IS COHERENTLY IMPULSIVE, MAKING USE OF DISCOVERED DPPORTUNITY THE SAME WAY FLAME AND HUNGER

OR BOTH ?



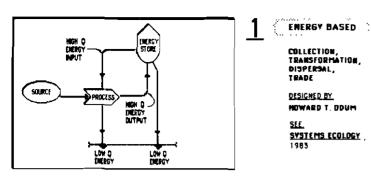


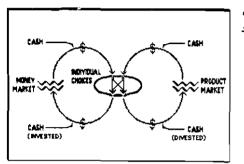
· A GENERIC PICTURE OF PROCESS FEEDBACK ·



BASIC MAP OF AUTONOMOUS CAUSATION .

### TWO GENERAL SYSTEM MODELS OF ECONOMIC PROCESS





2 MONEY BASED

EXCHANGE & CONCENTRATION, DIVESTMENT INVESTMENT

DESIGNED BY PHILIP F. HERSHAW

"UNCONDITIONAL POSITIVE FEEDBACK..." SUSR PROCEEDINGS, 1985

#### COUM ENERGY MODEL

BASIS HIGH QUALITY FORMS OF ENERGY ARE EMPLOYED IN CONVERTING NATURAL RESOURCES INTO OTHER HIGH QUALITY FORMS OF ENERGY WITH A BY-PRODUCT OF VERY LOY QUALITY FORMS OF ENERGY WASTE

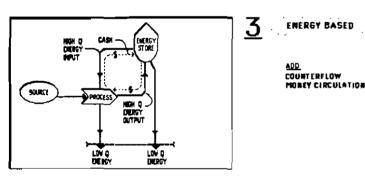
USE: ENERGY SYSTEM THEORMS AND SCHEMATIC MODELING FOR SYSTEM TRANSFORMATIONAL PROCESSES

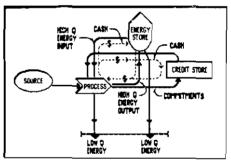
#### HENSHAW HONEY HODEL

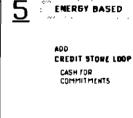
BASIS: MONEY CIRCULATES BY BEING TRANSFERED USE: ECONOMIC THEORIMS AND SCHEMATIC MODELING OF ECONOMIC PROCESSES

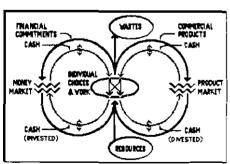
### TWO GENERAL SYSTEM MODELS OF ECONOMIC PROCESS

## TWO GENERAL SYSTEM MODELS OF ECONOMIC PROCESS



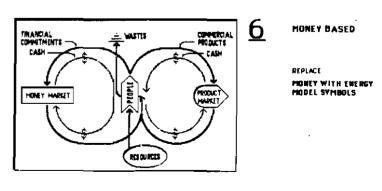






MUNEY BASED

ADD COUNTERFLOW PRODUCT AND FINANCE CIRCULATION, THEIR RESOURCES & WASTES





HENSHAW MONEY MODEL

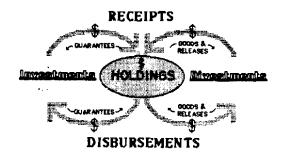
BASIS: MONEY FLOWS IN THE OPPOSITE DIRECTION OF THE CREATION OF ENERGY QUALITY AS A REWARD FOR ENERGY VALUE ADDED

BASIS: THE MATERIALS EXCHANGED ARE GOODS AND BANGS: THE MATERIALS EXCHANGED ARE GOODS A SERVICES IN THE PRODUCT MARKET AND VARIOUS KINDS OF COMMITTENTS FOR INVESTMENT RETURNS IN THE MOREY MARKET

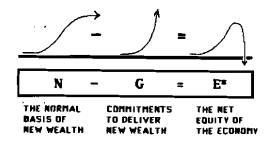
MOVE; DRIGINAL RESOURCES AND FINAL WASTES HAVE NO MONETARY VALUE BECAUSE OWNERSHIP IS NOT EXCHANGED IN THEIR USE DR DISPOS

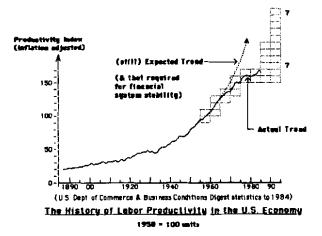
ODUM ENERGY MODEL HENSHAW MONEY MODEL PROCESS CHANGE PLONE

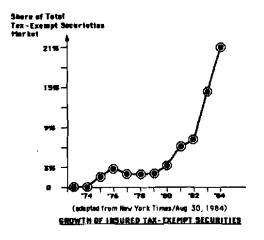
PEDPLE PRODUCT MARKET MINITY HARRIN

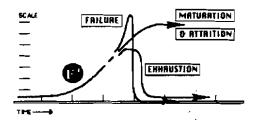


BASIC MODEL OF TOTAL EXCHANGE •

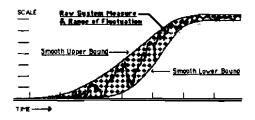




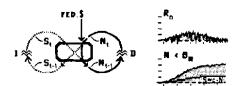




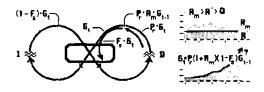
. THREE GENERAL TYPES OF GROWTH CLIMAX .



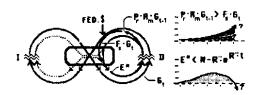
IMPLIED SMOOTH GROWTH ENVELOPE



- THE DORMAL EARD/SPEND/SAVE ECONOMY •



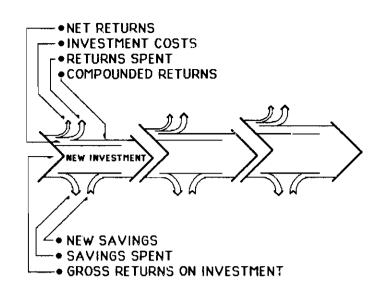
. THE COMPOUNDED INVESTMENT ECONOMY .

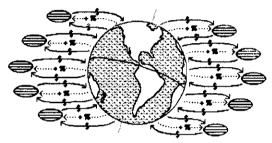


• THE NORTHALLY COMPOUNDED ECONOMY •

Henohaw 85

### THE COMPOUND ACCUMULATION OF INVESTMENT



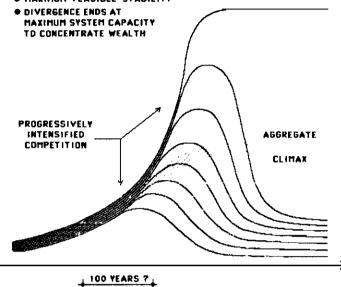


### COMPETITIVE DIVERGENCE AT CLIMAX

-*0R*-

"THE IMPORTANCE OF STAYING ON TOP"

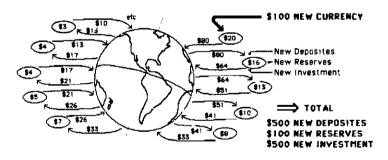
- . IDEALLY UNIFIED GROWTH SYSTEM
- ◆ UNCONDITIONAL POSITIVE FEEDBACK OF SUCCESS
- · MAXIMUM FEASIBLE STABILITY



"Hence the stock of capital and the level of employment will have to shrink until the community becomes so impoverished that the eggregate of sovings has become zero, the positive savings of some ...being offset by the negative savings of others." J. M. Keynes

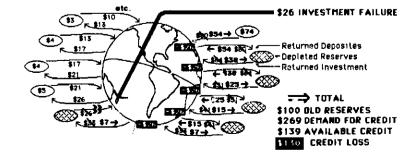
### IDEALIZED EXPANSION OF CREDIT

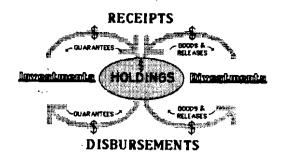
NEW CURRENCY NORMALLY SUPPLIED AS ECONOMY ENPANOS



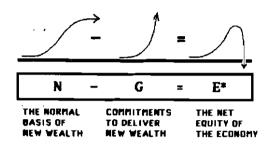
### IDEALIZED COLLAPSE OF CREDIT

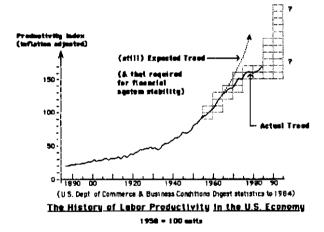
NORMALLY PREVENTED BY PROFITS SUFFICIENT TO COVER LOSSES

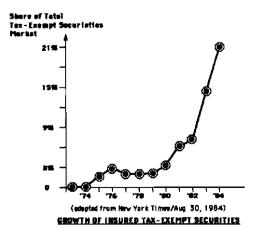


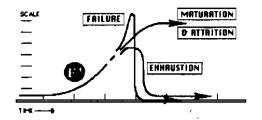


• BASIC MODEL OF TOTAL EXCHANGE •

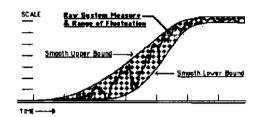




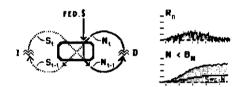




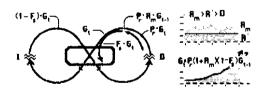
• THREE GENERAL TYPES OF GROWTH CLIMAX •



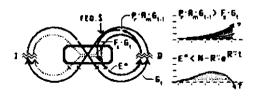
IMPLIED SMOOTH GROWTH ENVELOPE



• THE NORMAL EARN/SPEND/SAVE ECONOMY •



. THE COMPOUNDED INVESTMENT ECONOMY .



. THE DORMALLY COMPOUNDED ECONOMY .

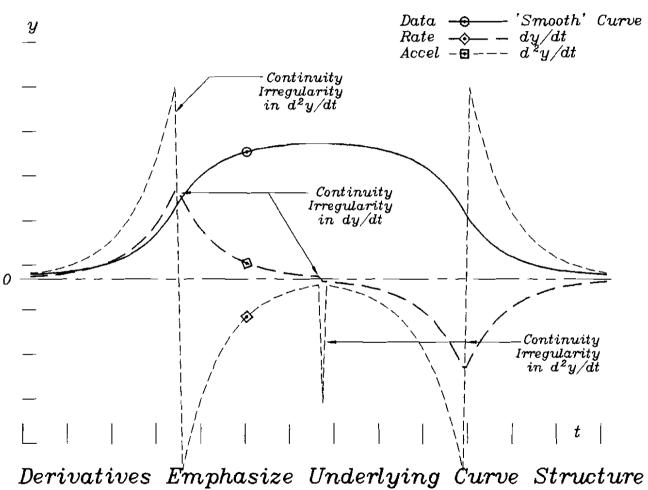
Henshow 85

1

File: OPSK01.DWG Date: 03-26-95

constructed curve derivatives showing discontinuities

Constructed Curve, from Mirrored Exponential Segments:, Dif-1, Dif-1, Gsc-0.6/1

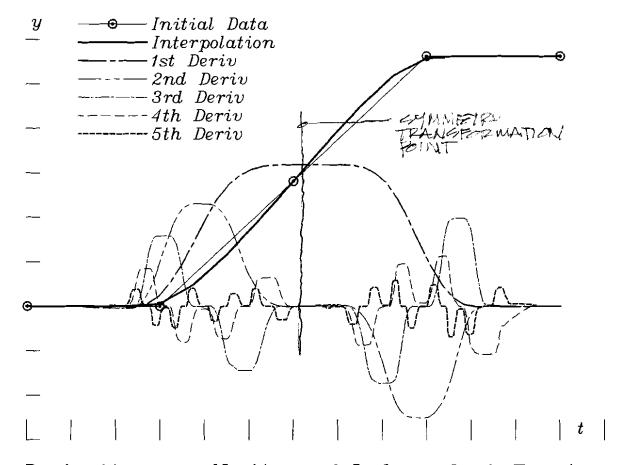


Exponential Segment Mirrored, Joined and Differentiated

File: OPSKO3.DWG Date: 03-27-95

```
Starting Curve: 2Pt Step,
Smoothing: Din2, Din2, Ddsm-2x1
1st Deriv: Dif-2, Ddsm-2x1, Din2, Tsep-2, Ddsm-2x1
2nd Deriv: Dif-2, Ddsm-2x1, Tsep-2, Ddsm-2x1, Din2, Ddsm-2x2,
3rd Deriv: Dif-2, Ddsm-2x2, Tsep-2, Tsep-2, Ddsm-2x4,
4th Deriv: Dif-2, Ddsm-1 2-PTx2, Tsep-2, Tsep-2, Ddsm-2x2, Ddsm-2x2,
5th Deriv: Dif-2, Ddsm-1 3-PTx2, Tsep-2, Tsep-2, Ddsm-2x2
```

# Transforming a step into an continuous event hierarchy



Derivatives as Nesting of Independent Events

Constructed with derivative smoothing & trend compression