

Abstracts submitted for presentation at the June 2016 joint conferences of the:

International Society for Ecological Economics (ISEE) <http://www.isecoeco.org/isee-2016-conference/>

... and the *International Society for BioPhysical Economics* (ISBPE) <http://bpeconomics.org/>

ISBPE topic heading:

Transforming Economic Growth and Redefining Economic Measures: *ecological macroeconomics*

Paper title:

Post-normal speculation in macro design of a wealth-based economy: *Real wealth is a measurement of robust ecology and of the general health and happiness of the people!*

Abstract:

We live in times of extreme contrast and conflicting frames of reference which identify and define reality. In one reality we have state governments that follow the economic paradigm of everlasting growth in human-activity: In contrast, scientific realities tell us the human footprint is already far larger than planet Earth's natural systems can sustain. Evidence of [this conflict](#) is brought home daily through media coverage of resource wars, population overflow, and troubling news of wide ranging ecological decline: But Nov. 22/15 the [Wall Street Journal](#) carries this headline: *The developed world's workforce will start to decline next year, threatening future global growth.* We have moved into a *paradigm junction*. The next paradigm remains undefined, leaving us with no viable goal while our reality conflict results in cognitive dissonance as the preferred alternative to outright despair.

This paper briefly examines why and how a few key elements of the existing economic/monetary paradigm have, over the past century, locked us into this cancer-like growth mode that is [incapable](#) of de-growth, or even a steady-state economy. To change this trajectory we need to change the way we do a few things.

We discuss the usefulness of a post-normal approach in order to free ourselves to examine and assess the interactive elements of today's evolved approach to governance, to economics, money creation and human population issues – our paradigm. We will find that the vast majority of our 'normalized' abstract concepts, the building blocks of our civilization, appear to serve us well.

But today's definition of wealth, coupled with bank-controlled debt-based monetary-generating protocols remains a key driver of instability and growth in human-activity. This must change.

We will suggest one possible framework for an integrated ecological macroeconomics and monetary control system that can become an influential regulator of human-activity using feedback from real-time scientific measurement of the elements of *real wealth*, as defined in the title. It will be a dynamic system of governance with a clearly defined goal of reaching an ecological footprint compatible with our small blue planet.

A multidisciplinary group-developed shared vision of a viable future could be an essential tool to clear the fog of cognitive dissonance that prevents widespread acknowledgement of the dire need for change, and would provide a synergetic common goal for existing change initiatives.

ISEE group Dec 13/15

Dynamic regulation of human-activity through socio/biophysical economics

Don Chisholm

Engineering Technologist – Gaia Preservation Coalition

Abstract

This paper is predicated on the understanding that the century old debt-based bank-controlled money-creation system is incompatible with Earth's biophysical realities, and for a variety of reasons is likely to soon collapseⁱ: To avoid spiraling chaos and global resource wars, prior to economic collapse it is urgent that we develop and begin to popularize its replacement.

Global *human-activity*ⁱⁱ consists of individual humans, couples, families, communities, regions, states and nations. *Sociopsychology*ⁱⁱⁱ informs us that our individual behaviour is influenced somewhat by all of these relationships, however, the level of influence drops rapidly as we move out from 'self'. This suggests that if we are to make a significant heading change of the global ship-of-state the best place to start would be to influence *human-activity* of the individual human and close-in relationships, in an acceptable and familiar manner.

A significant factor in the level of an individual's resource throughput - '*activity*', is our relative affluence - our available money. Where women are educated, free-and-equal, affluence also influences procreation choices - '*human*'. Local peer pressure also has a significant effect. With this in mind we explore the merits and potential design of a science-based socio/biophysical economic system wherein we scientifically measure and assess the status of a large number of factors critical to the stability of our social and biophysical world – accessible energy, biodiversity, etc., etc.. This also includes elements of civilizations' infrastructure such as the viability of essential corporations and of human well-being and happiness.

These socio/biophysical measurements form the input data for an interactive system of dynamic governance with the goal of reducing the human ecological footprint^{iv} toward a sustainable level. Transparent money creation and flow rates guided by input data provide dynamic feedback regulation of *human-activity* at the individual and regional levels.

ⁱ The traditional economic tools to foster growth, such as lowering interest rates no longer work. Many writers anticipate imminent collapse, such as <<http://utopiathecollapse.com/2015/11/29/the-world-economic-order-is-collapsing-and-this-time-there-seems-to-be-no-way-out/>>

ⁱⁱ The expression 'human activity' is recommended by the [Club Of Rome](#) to cover both human population and our gross effect on the environment.

ⁱⁱⁱ social psychology *noun* Medical Definition of *SOCIAL PSYCHOLOGY*: The study of the manner in which the personality, attitudes, motivations, and behavior of the individual influence and are influenced by social groups
<http://www.britannica.com/science/social-psychology>
<http://www.merriam-webster.com/dictionary/social%20psychology>

^{iv} Ecological Footprint organization indicates [human-activity is in overshoot](#) of our planet's resources.