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Traditional and Contemporary Eco-Cosmologies within Western and Christian Indigenous Traditions;

Seeking Sustainability through recognition of Integral Interconnection



Eco-cosmology, Sustainability and a Spirit of Resilience Conference,
University College Cork, 21st & 22nd September 2018

Edmond Byrne
School of Engineering /
Sustainability in Society Research Group

An Integral Cosmology => Universal Interconnection

“The universe is a communion of subjects
rather than a collection of objects”

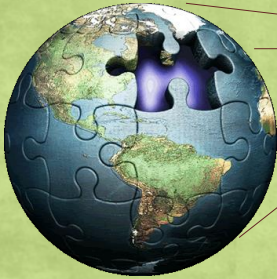
Thomas Berry, *The Universe Story*

“We lose our souls if we lose the experience of the forest,
the butterflies, the song of the birds,
if we can't see the stars at night.”

Thomas Berry

The Project of Modernity; An Age of 'Reduction and Separation'

Descartes' (1596-1650) philosophy sought **certainty** through **rationality**, based on an **antagonistic dualism** between the **objective** physical mechanical body & the entirely **separate subjective** mind/soul.



Amid the turmoil of the early 17th Century (war, turmoil, climate change) Descartes' thesis was a resounding success, and continues to be..



The Project of Modernity; Paradigm of Reduction and Separation

Promotes an **Individualistic Consumerism** via an **Ideology** of (infinite) **Growth**, the driving force behind the contemporary **Crisis of Unsustainability**, as manifested by:

- **Climate change**
- **Biodiversity and cultural loss/extinction**
- **Increased globalised uniformity, over cultural/anthropogenic diversity**
- **Increased individualism/narcissism, over collective/community**
- **Increased anxiety, individually and societally**
- **Throwaway materialistic consumerism**
- *etc., etc..*

The project of reductionist modernity, which has promised and delivered great power, control and goods to privileged purveyors, has been too smart for its own good.

Driven by left brained hubris, **Uber-Smart Progress** trumps **accumulated Wisdom!** `

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'It's a throwaway culture': Aftermath of Electric Picnic site was 'as if a nuclear Holocaust just happened' buff.ly/2wHXgym

07 SEPTEMBER 2018


Electric Picnic Highlights Throwaway Society






News / India / Bengaluru's Bellandur lake catches fire again, toxic smoke over IT city's suburb

Bengaluru's Bellandur lake catches fire again, toxic smoke over IT city's suburb

Rohini Swamy
Bengaluru
February 17, 2017
UPDATED: February 17, 2017 12:42 IST
[Follow @Rohini_Swamy](#)



(Source: inhabitat.com)

INDIA TODAY

READ LATER

HIGHLIGHTS

Bengaluru's Bellandur lake catches fire again.

Bellandur lake catches fire.

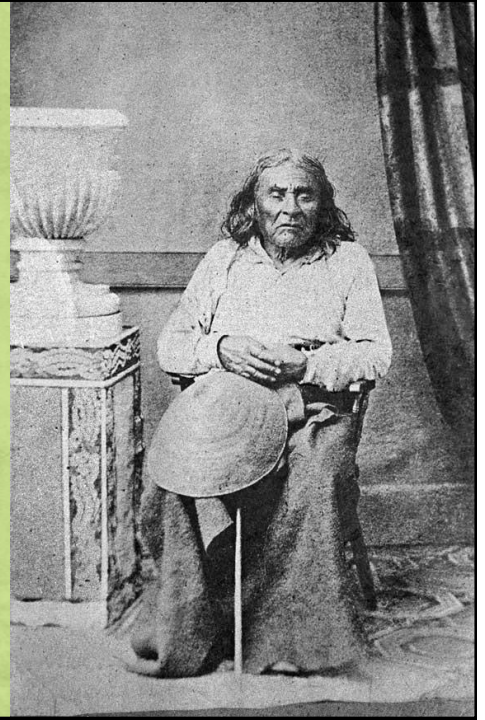
Bengaluru's Bellandur lake is in news again. A fire broke out at this lake, considered to be one of the biggest in the city, on Thursday evening sending out huge cloud of toxic smoke causing panic among locals.

*“If you become conscious of **connections to everything**, not just the immediate world before you, you will experience a much broader and more powerful sense of **Being**. Some **Native Americans** talk of being part of the **web of life**. They **connect everything to everything** and so develop a respect for everything as **sacred**.”*

*...**Spirituality** leads to **practices** in daily living that reflect a sense of **connectedness** to the world. ..We have to **recover** the sense of **sacredness** of the **world**, even of the **cosmos**, that envelops us.’*

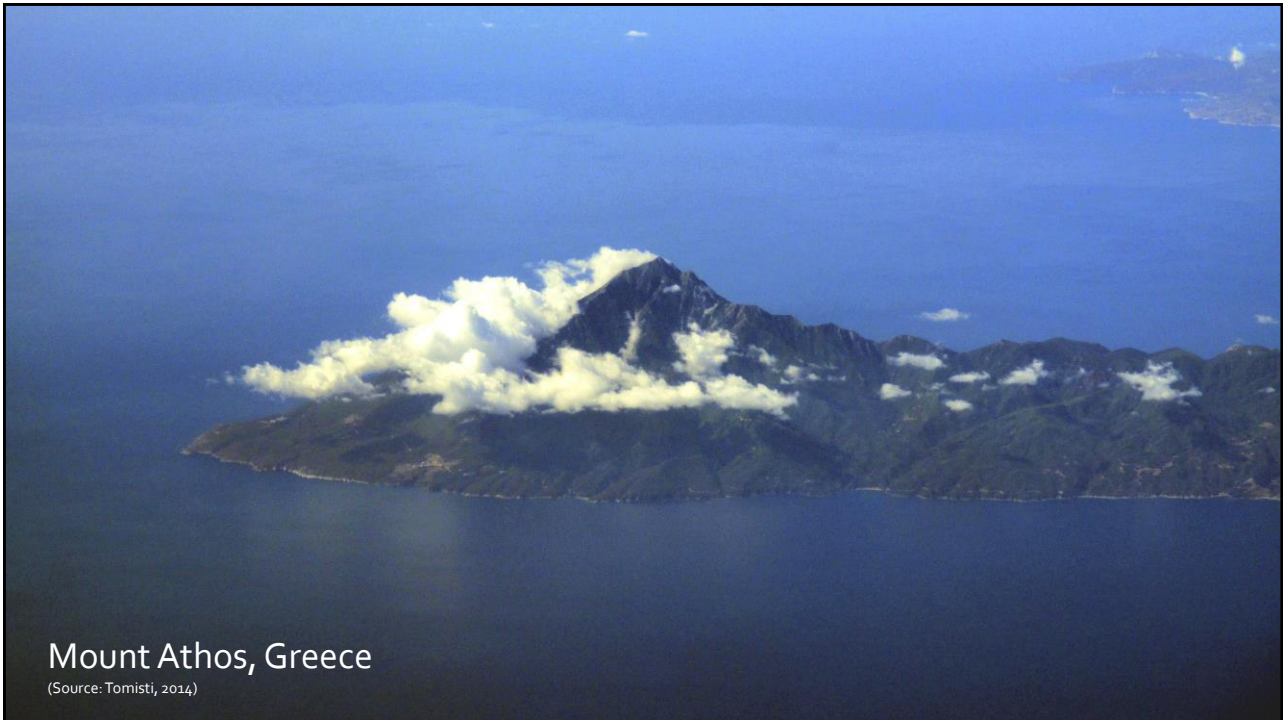
John Ehrenfeld

(‘Flourishing: A Frank Conversation About Sustainability’, 2013. pp. 106-107)



Bsharre Grove ('Cedars of God'), Lebanon

(Source: iwanderwhy.net)



Mount Athos, Greece

(Source: Tomisti, 2014)

Reflection Points:

1. **Spirituality**: promotes outward (transcendent) looking sense of **interconnection**.
2. If the natural world/humanity is treated as **Sacred** – desecration is 'taboo', thus cannot be internalised as an economic externality.
3. However, these are derided by the Western inspired societal **Paradigm of Separation and Reduction** which has driven a **Crisis of Unsustainability** *amid*:
 - globalized standardization;
 - loss of cultural/anthropogenic diversity (including indigenous wisdom/s);
 - techno-optimistic rationality;
 - growth based neo-liberal economic system
(feeding individualistic consumerism and economic inequality).

A Dilemma Arises..

Traditional conceptions of the **Sacred/Spirituality** may perhaps be necessary for achieving **authentic Sustainability** (e.g. Ehrenfeld's 'Sustainability as Flourishing').

However, the **dominant Judeo-Christian worldview** has cohered with the dominant societal paradigm which:

- Embraces Cartesian **separation of material and numinous**
- **Anthropocentric** emphasis on (individualistic) **human salvation and dominion/control over nature**
- Has pointed toward **heaven ('up there')** and thus away from earth (**metaphysical antagonistic dualism**)
- Guilty of a **proselytizing colonialism**

So, is there any **HOPE** for John Mohawk's '*re-indigenization of the world*', given dominant Western reductionist conceptions of Science and Religion?

Lynn White's Historical Roots of our Ecological Crisis (1967);

10 March 1967, Volume 155, Number 3767

SCIENCE

The Historical Roots of Our Ecologic Crisis

Lynn White, Jr.

nating in our own time in the reclamation of the Zinder Zee. What, if any, species of animals, birds, fish, shore life, or plants have died out in the

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—

of the past. Our daily habits of action, for example, are dominated by an implicit faith in perpetual progress
tionship. More science and more tech-as unknown either to Greco- nology are not going to get us out of antiquity or to the Orient. If the present ecologic crisis until we find in, and is indefensible apart a new religion, or rethink our old Ideo-Christian teleology.

Especially in its Western form, Christianity is the most anthropocentric religion the world has seen. As Hence we shall continue to have a worsening ecologic crisis until we reject the Christian axiom that nature has no reason for existence save to serve man.

Since the roots of our trouble are so largely religious, the remedy must also be essentially religious, whether we call it that or not.

The greatest spiritual revolutionary in Western history, Saint Francis, proposed what he thought was an alternative Christian view of nature and man's relation to it: he tried to substitute the idea of the equality of all creatures, including man, for the idea of man's limitless rule of creation. He failed.

Especially in its Western form, Christianity is the most anthropocentric religion the world has seen. As Hence we shall continue to have a worsening ecologic crisis until we reject the Christian axiom that nature has no reason for existence save to serve man.

However, just as indigenous cultures can offer rich and diverse understandings and appreciation of our precious world, and a corresponding ethic of **integral interconnection**, neither is this lacking throughout **Western Judeo-Christian** traditions.

Strong counter-narratives have always existed
*'distinct from those of the **dominant societies** in which they live'¹..*

¹ part of definition of indigenous peoples as agreed by the UN
(with thanks to Gillian Watt, this conference)

The Medieval (Pre Modern) World

Strong counter-narratives have always existed
*'distinct from those of the **dominant societies** in which they live'..*

'I propose Francis as a patron saint for ecologists.'

Lynn White (1967)

Canticle of the Creatures (Francis, 1224)

Praised be you, my Lord, with all your creatures,
especially **Brother Sun**, who is the day and through
whom you give us light.

...Praised be you, my Lord, through **Sister Moon** and
the stars, in heaven you formed them clear and
precious and beautiful.

...Praised be you, my Lord, through our **Sister
Mother Earth**, who sustains and governs us.

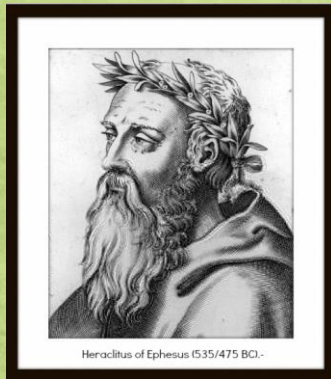
Francis, Patron Saint of Ecology (Pope John Paul II, 1979)



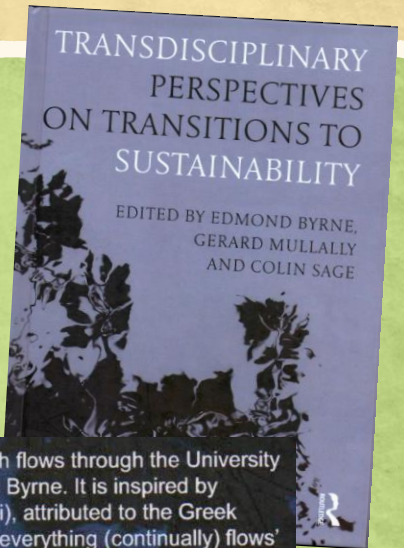
The Ancient World

Strong counter-narratives have always existed
'*distinct from those of the dominant societies in which they live*'..

Heraclitus; a world of process, continuous change and agonistic complimentary opposites



*“Men do not know how that which is drawn in different directions harmonises with itself. The **harmonious** structure of the world depends upon **opposite tension** like that of the bow and the lyre.”**



Cover image: The River Lee which flows through the University College Cork campus. © Edmond Byrne. It is inspired by the caption 'Πάντα ῥεῖ' (Panta rhei), attributed to the Greek philosopher Heraclitus, meaning 'everything (continually) flows' or, to paraphrase: 'One cannot step into the same river twice.'

*Heraclitus, Fragment 51, translated by John Burnet (1912)

The Early Modern World

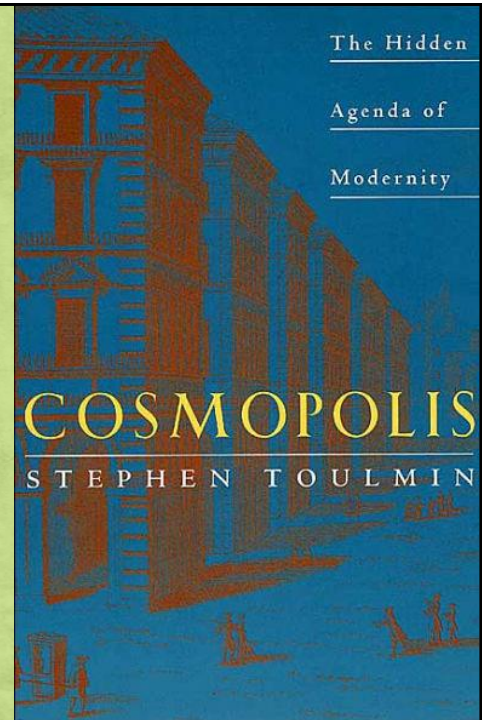
Strong counter-narratives have always existed
*'distinct from those of the **dominant societies** in which they live'..*

Toulmin (1990) outlines what he calls the **'first phase of Modernity'** (pre 1610) when (a religiously imbued) humanism flourished, tolerant of diversity, plurality and ambiguity, when *'the lack of certainty [was] no error, let alone a sin'* (p.30)



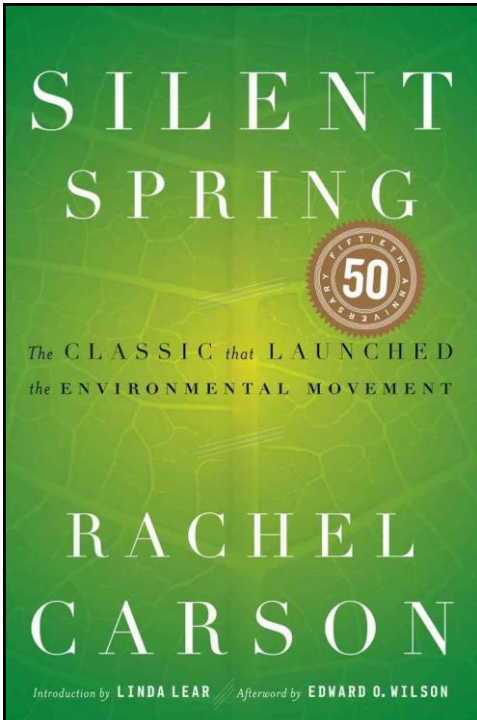

Michel de Montaigne
(1533-1592);
*The only thing certain is
that nothing is certain.*

With the onset of the **second phase of Modernity** however, came a quest for (Cartesian) certainty: 'general axioms were in, concrete diversity was out' (p.34)



The Birth of Contemporary Environmentalism

Strong counter-narratives have always existed
'distinct from those of the dominant societies in which they live'..

**SILENT
SPRING**

The CLASSIC that LAUNCHED
the ENVIRONMENTAL MOVEMENT

**RACHEL
CARSON**

Introduction by LINDA LEAR Afterword by EDWARD O. WILSON

*'The history of life on earth has been a history or **interactions** between living things and their surroundings.'*

Rachel Carson,
Silent Spring (1962)

'The Religious Humanism of Rachel Carson'

Connie Lasher, *The Journal of Oriental Studies*, 2012, v 22, (193-205)

- Carson; born 1907, of strong **Calvinist** upbringing/background.
- American Calvinism imbued with Puritan-Protestant values but **nature** important, especially cultural significance of '**wilderness**'.
- As American wilderness overtaken by westward expansion/'progress', Self-understanding as '**Nature's nation**' and cultural associations with the **sacred, virtue, beauty, innocence** were **challenged**.
- Carson a product of '**The Nature Study Movement**'; part of progressive focus on education: to impart worldview of **modern science**, while simultaneously nurturing children's **spiritual & ethical development**, while recognizing **limits of scientific endeavour**.
- Had support of intellectuals e.g. **John Dewey** (for whom **nature** study was **holistic science**, conveying the full moral import of relational wholeness in personal development).



The Contemporary World

Strong counter-narratives have always existed
'*distinct from those of the dominant societies in which they live*'..

Pope Francis: Laudato Si' (2015)

'Sometimes a book catalyzes thought into action. Uncle Tom's Cabin did this, and so did Silent Spring. Like these works, Pope Francis's Encyclical is a call to action that insists we embrace the moral dimensions of problems that have heretofore been viewed primarily as scientific, technological, and economic.'

Naomi Oreskes

(Prof of History of Science, Harvard U.)

*'Pope Francis's encyclical, **Laudato Si'**, will ultimately be recognised as one of the most significant events in the modern environmental movement.'*

Financial Times, 2 July 2015

LAUDATO SI'

ON THE CARE OF
OUR COMMON HOME



POPE FRANCIS



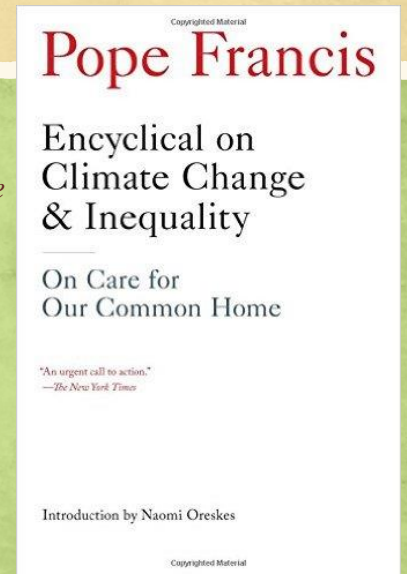
ENCYCLICAL LETTER

Laudato Si': Franciscan Cartesian critique

*“Saint Francis of Assisi reminds us that our common home is like a sister with whom we share our life ..[who] now **cries out** to us because of the **harm** we have inflicted on her ..We have come to see ourselves as her **lords and masters**, entitled to plunder her at will.*

*..[While] we Christians have at times **incorrectly interpreted the Scriptures**, nowadays we must forcefully reject the notion that our being created in God's image and **given dominion over the earth justifies absolute domination over other creatures.***

*..The poverty and austerity of **Saint Francis** were no mere veneer of asceticism, but something much more **radical**: a refusal to turn reality into an **object** simply to be used and **controlled.***



Laudato Si': Integral Worldview => Interconnection



*“It cannot be emphasized enough how **everything** is **interconnected**. ..It also entails a loving awareness that we are not disconnected from the rest of **creatures**, but joined in a splendid **universal communion**.*

*..We urgently need a **humanism** capable of **bringing together the different fields of knowledge**, including economics, in the service of a more **integral and integrating vision**.*

*..What is needed is a **politics** which is far-sighted and capable of a new, **integral and interdisciplinary** approach to handling the different aspects of the **crisis**.”*

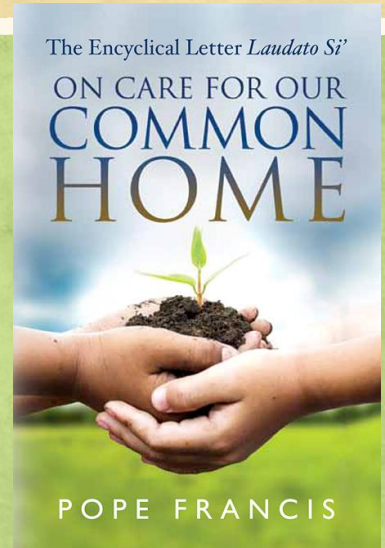


Laudato Si': Indigenous over Consumerist Values

“..We need to take up an **ancient lesson**, found in **different religious traditions** and also in the Bible. It is the conviction that **'less is more'** .

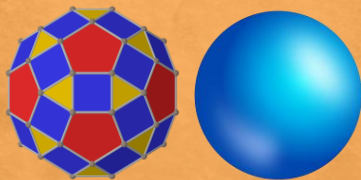
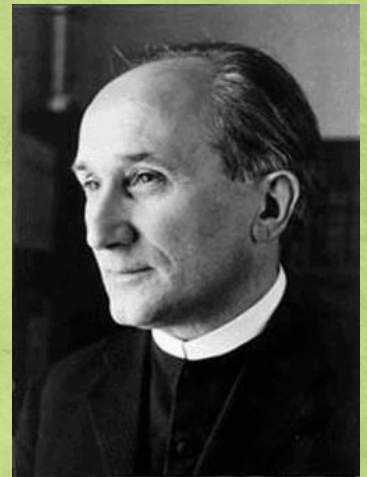
..A **consumerist vision** of human beings, encouraged by the mechanisms of today's globalized economy, has a **levelling effect on cultures**, diminishing the **immense variety** which is the **heritage** of all **humanity**.

..It is essential to show special **care** for **indigenous communities** and their **cultural traditions**. ..For them **land** is not a commodity but ..a **sacred space** with which they need to **interact** if they are to maintain their **identity** and **values**. ”



“The master of oppositions, of **bipolar tensions**, as we might call them, is Guardini, who teaches us this path of **unity in diversity**. What's happening today with fundamentalists? Fundamentalists lock themselves up in their own identity and don't want to hear anything else.”

..We must not seek **synthesis**, because synthesis can destroy everything; we must tend towards the **polyhedron**, towards the **unity that preserves all diversities, all identities**. The master in this field – because I don't want to commit and act of plagiarism – is **Romano Guardini**”



Pope Francis

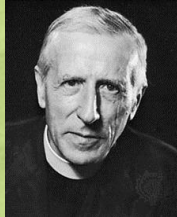
*The Path to Change;
Thoughts on Politics and Society
with Dominique Wolton
(Pan Macmillan, 2018) p.11-12*

Romano Guardini,
German-Italian Catholic priest,
academic, philosopher and
theologian (1885-1968)

Integral Worldviews from Western/Christian Tradition



Alfred North Whitehead
Philosopher & Mathematician
(1861-1947)



Pierre Teilhard de Chardin
Jesuit Priest & Paleontologist
(1881-1955)



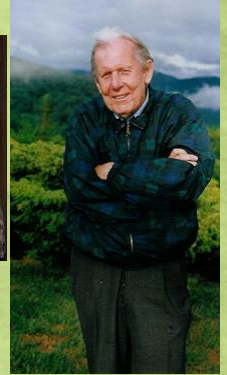
Ilia Delio
Franciscan Sister and Theologian
(b. 1955)



John B. Cobb
Methodist Theologian and Philosopher
(b. 1925)



Catherine Keller
Christian Theologian
(b.1953)



Thomas Berry
Passionist Priest
(1914-2009)

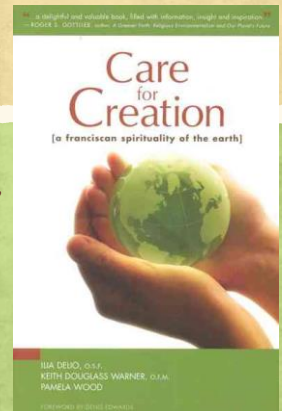
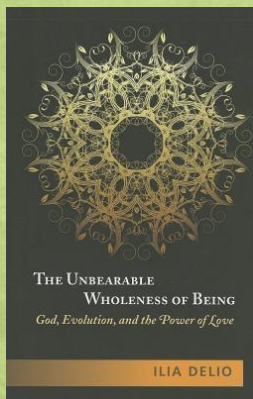
Ilia Delio OSF (2007):

*“Christian responsibility, especially for the natural world, demands that we think of the earth, and the entire cosmos for that matter, as our **home**.”*

*“We must realize our **interconnectedness to creation**. A new consciousness must call us to an active stance as ‘**brother**’ and ‘**sister**’ to the **non-human creation**. ...Can we recapture a sense of ‘**Cosmic family**?’”*

*“Sin is the **refusal to participate in creation’s web of life**. It describes the personal history of one who was created for **communion and refuses it**. [..We must] realize that **sinful actions** are at the **root of our present ecological crisis** and thus our need for ongoing penance or conversion.”*

*Ilia Delio, Franciscan sister, theologian (U. Villanova)



The Contemporary Scientific World

Strong counter-narratives have always existed
'*distinct from those of the dominant societies in which they live*'..

Contemporary Science: An emerging Integrative 'Complexity'
Paradigm (challenging 'Reduction and Separation')



Creativity in natural **complex** systems is a property,
"so stunning, so overwhelming, so worthy of **awe, gratitude, and respect,**
that it is **God enough** for many of us."

Stuart Kauffman
Biologist, Complexity Scientist
Reinventing the Sacred (2008), p.276.

The Local Indigenous World

Strong counter-narratives have always existed
'*distinct from those of the dominant societies in which they live*'..



Nano Nagle
(1718 – 1784)

 nano nagle birthplace
heritage spirituality ecology

nano nagle birthplace
heritage spirituality ecology

Special days of Inspiration, Wisdom and Reflection

July 12th – 16th 2018 Save the Date

Special days of Inspiration, Wisdom and Reflection

Celebrate the 300th birthday of Nano Nagle with us in her birthplace from July 12th to 16th 2018.

12 July Sharon Zayac OP Evolutionary Awareness: An Emerging Worldview

We are in the midst of a cosmic shift in understanding who we are as persons, as people of faith, and as a human species. What is this newly emerging consciousness? What does it teach us about who we are, how we are related to the whole, and how we image Holy Mystery? Using The Cosmic Story as our context, we find inspiration and hope as we explore and reflect upon its deeper meaning. For reflection and discovery, this session will have personal contemplative time.

Speaker: Sr. Sharon Zayac – a Dominican Sister in Springfield, Illinois – is Director of Jubilee Farm, her congregation's 164-acre centre for ecology and spirituality located near Springfield, Illinois. A writer and lecturer, she speaks on many ecological topics, but her passion is sharing the Universe Story and its implications for life and faith. Her book – *Earth Spirituality: In the Catholic and Dominican Traditions* – focuses on evolutionary consciousness as an emerging worldview.

Nano Nagle Place

BLOG ABOUT CONTACT GET INVOLVED

Discover Community Visit What's on

The Story of Our Universe
30.01.18-27.02.18, 19.30-20.30

The Cosmic Walk



The Cosmic Walk as a reflection using the image of a spiral to understand the order of our Universe, a Universe that is still evolving. After the Beginning or the Great Flaring Forth comes the end. Scientists now know that there are about a hundred thousand million galaxies in the Universe. Learn about the birth of Planet Earth and much more. An evening of Awe!

Friday, 30 October

7:21:00

Nagle Place, (entrance through Evergreen Street)

Reservations required: email: Info@nanonagleplace.ie or telephone 021-419-3580

Organised by Sister Emma Rooney

Journey of the Universe



The Journey of the Universe is a film that presents the epic story of the Cosmos, Earth and Human evolution and transformation. This work is written by Brian Swimme and Evelyn Tucker. It is based on modern scientific research and spiritual reflection.

Every Tuesday evening starting November 23, ending November 29

7:30 – 21:00

Nano Nagle Place, (entrance through Evergreen Street)

Reservations is required: email: Info@nanonagleplace.ie or telephone 021-419-3580

Organised by Sister Emma Rooney

Seating is not available

	Seeks certainty/control	Recognises inherent Uncertainty
Materialistic	Modern (Reductionist) <i>Associated with:</i> Reductionist 'Science'; 'Value free' logic/rationality Technocratic techno-optimism Seeks revealed certainty through reason Progress through: Reductionist Science	(Deconstructivist) Postmodern <i>Associated with:</i> Deconstructivism, Scepticism Constant decentred change (in space and time) Ineliminable Uncertainty, Nihilism Progress through: Pluralistic Tolerance
	Premodern (Traditional) <i>Associated with:</i> Singular, comprehensive view of universe Fixed hierarchical structure Irreducible mystery, Sacred Progress through: Interpretations & Insights into the Unique, Divine Created Order through mediated Scripture/Sacred texts	Integrative (Interconnection) <i>Associated with:</i> Transdisciplinarity, Irreducible complexity; normativity (/values), Interconnectedness, recursivity Process change and emergent evolution Progress through: Integrative Science and Philosophy; Progress recognised as contingent, context dependent, emergent and qualitative ('sustainability as flourishing')

Based on Byrne (2017), drawn from Hedlund-de Witt's Integrative Worldview Framework

(throughout) Western Science & Philosophy; ..persistence of Integrative (Indigenous) Cosmologies

The timeline is set against a green background with horizontal dashed lines representing centuries. Key figures and their approximate dates are shown with small portraits:

- Antiquity:** Plato, Aristotle (BC), Heraclitus.
- 1600:** Gallileo, Erasmus, Montaigne.
- 1700:** Descartes, Newton. A yellow box highlights: "Modern science; the 'Scientific Method', Reductionism; seeking certainty". Another yellow box highlights: "Complexity theory; embraces uncertainty".
- 1800:** Darwin, Von Goethe.
- 1900:** Laplace, Hilbert, Gödel, Kuhn, Prigogine.
- 2000:** Dawkins, Ulanowicz, Kauffman, Morin.

Hope springs eternal!

**Traditional and Contemporary Eco-Cosmologies within
Western and Christian Indigenous Traditions;**

Seeking Sustainability through recognition of Integral Interconnection



Eco-cosmology, Sustainability and a Spirit of Resilience Conference,
University College Cork, 21st & 22nd September 2018

Edmond Byrne
School of Engineering /
Sustainability in Society Research Group