Chapter …

Lynn White Revisited: 
Religious and Cultural Backgrounds 
for Technological Development¹

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Abstract: Since the beginning of the awareness of the environmental crisis, studies have tried to trace back the historical and ideological roots of industrial evolution. Many of these studies indicated elements of the Judeo-Christian tradition as at least co-responsible. Some 40 years later, this chapter overviews some strands of the discussions these studies have provoked, especially concerning the alleged anthropocentrism of Judaism and Christianity, and their disenchanting attitude towards nature. These traditional ideas are confronted with insights from Marcel Gauchet’s philosophy of religion, with inputs from other religions, and with empirical data from recent surveys.

Key words: disenchantment of nature; anthropocentrism; Judaism; Christianity;

Introduction

When did it all begin? Like environmentalists often refer to Rachel Carson’s Silent Spring (1962) as “the real beginning” of the environmental movement, philosophers studying environmental and technology issues mostly choose the 1967 article “The Historical Roots of our Ecologic Crisis” (written by the American historian Lynn White) as a point of reference, at least in the historical sense, and often also as to the ideas developed in it. Both for Carson and for White, important precursors can be indicated, so that coining their texts as “starting points” is somewhat artificial. Yet both had something new in their statements which can legitimize their reputation, and the mere fact of the frequent referrals to their texts can be significant in itself. Carson’s book evoked the possibility of human activities pushing environment

to the limits of its carrying capacity for sustainable life – an idea later taken up by *Limits to Growth*, and by the more recent mathematical models for the prediction of combined environmental, climatologic, demographic and economic evolutions. Lynn White’s article took up arguments from the realm of discussions about religion, culture and technology, but placed them in the context of the raising awareness of the environmental crisis, where they sounded as an accusation against the Judeo-Christian roots of Western culture. With religion coming into play, White seems to have touched a very sensitive nerve, and his article was gave rise to a multitude of comments, interpretations and criticisms.

The Ideas behind “The Historical Roots of Our Ecologic Crisis”

White’s article emphasizes first of all that “modern technology and modern science are distinctively Occidental”. This is not meant to deny achievements in e.g. China or the Arabic world; on the contrary, many technological innovations had their historical roots in eastern cultures, and were – in successive movements – imported from the East. Yet, throughout the Middle Ages already, the Occident saw scientific and technological development exceeding that in the Orient. In order to understand this development, White wanted to examine some of the “fundamental medieval assumptions and developments”: “Human ecology is deeply conditioned by beliefs about our nature and destiny – that is, by religion”. And for Western Europe, religion mainly means: Christianity, which cannot be properly understood without also referring to its Judaic roots. And Christianity (especially in its Western form) is, according to White, “the most anthropocentric religion the world has seen”.

For illustrating Christianity’s anthropocentrism, White refers to the story of Creation that Christianity inherited from Judaism. In Gen 1:26-28 mankind is created as an “image of God”, and receives the mission to “fill the earth and subdue it”, and to rule over the animals. In Christianity moreover, the special nature of mankind is re-emphasized by God’s incarnation in Christ: what more can one want as a proof of the God-likeness of man? Furthermore, Western versions of Christianity developed the tradition of “natural theology”: the study of the created nature itself was a legitimate way of understanding the Creator. For many historically important scientists, their scientific work was intricately linked to faith and theology. White mentions here Roger Bacon, Galilei, Newton.

The history of Christianity is not univocal in this respect, though. Christian churches of Byzantine or Orthodox tradition tend to be more contemplative, and hence less inquisitive or active. And even in the history of the
Western catholic church, there are figures like Saint Francis who "tried to substitute the idea of equality of all creatures, including man, for the idea of man’s limitless rule of creation". Although Saint Francis is in this sense atypical for the Western Christian tradition, White proposes him as a "patron saint for ecologists".

The thesis of Judeo-Christian anthropocentrism as a dominant cause for mankind’s impact on environment is the most discussed aspect of White’s text. Minteer and Manning (2005) distinguish some other layers which could lead to discussion. Human interference with the environment e.g. is almost self-evidently described as an "inherently negative disruption of some sort of preexisting and static ecological order" (Minteer and Manning, 2005, p. 167). But the idea that the “natural state” of environment would be an equilibrium can severely be questioned. Or the suggestion that in an older model of agriculture, man was in close contact with nature, whereas modern agriculture would bring disruption and alienation. White also seems pessimistic about democracy’s possibility to deal with the environmental crisis. And finally, White does not consider the possibility of milder, less exploitative forms of anthropocentrism.

Old Wine in New Wineskins?

White was not the discoverer of the theme of anthropocentrism in Christianity, and of the desacralization of nature in monotheistic religions like Judaism and Christianity. For centuries, philosophers and theologians had been mentioning these characteristics while examining the link between Christianity and scientific or technological development. Van der Pot (1985, p. 38-39) considers the English scientist Robert Boyle to be the first author to point out that “[T]he veneration, wherewith men are imbued for what they call nature, has been a discouraging impediment to the empire of man over the inferior creatures of God”. And in the 4th Century AD already, Saint Gregory of Nyssa wrote that “to conclude the Creation, man was introduced: not contemptuously subject to the latter, but from his very beginning dignified to be king over what is subordinate to him” (Van der Pot, 1985, p. 48).

In the beginning of the 20th Century, several authors developed this theme further. Among them the German sociologist Max Weber in his elaborate study of the historical and ideological roots of science, technology and capitalism. He indicated that where the relationship between humans and nature is dominated by magic, rationalization of human actions (like in economy and technology) is severely inhibited. Judaism on the contrary is characterized by a hostility against magic, and Christianity (especially in its ascetic protestant tendencies) inherited this attitude (Van der Pot, 1985, p. 39). Other thinkers coming to similar conclusions include Max Scheler and Arnold Gehlen.
Considering these precursors, it may seem surprising that White’s article elicited so much discussion. In fact, the basic ideas behind it were not new in themselves. But until then, they had mainly been linked to the occurrence of scientific and technological progress, and in this respect endowed with a predominantly positive connotation. White however uses words which carry a negative valuation: he puts the discussion in a context of crisis; human dealing with nature is not just use or even domination, but ends in exploitation; and to the extent that the ecologic effects are out of control, he considers Christianity to bear a large burden of guilt. It seems that this accusatory tone contributed to a large extent to the eagerness with which many commentators started discussing, confirming or refuting White’s theses.

Add to that the fact that the environmental problem in itself was a relatively new theme on the public agenda. Rachel Carson had set the tone in indicating certain forms of pollution as threatening for the future of mankind. The oil spill of the Torrey Canyon (as one of the very first major environmental accidents) was very effective in visualizing the possible threats of large scale industrial operations. Other themes like the limited availability of raw materials, or the possible impacts on climate got at the time little or no attention, or had still to be discovered.

**Dominion Terrae: Disenchantment of Nature Combined with Anthropocentrism**

According to Wildiers (1989) and Boersema (1991, p.31), all human thinking about a deeper meaning of life has a “metaphysical triangle” as its backcloth: it has to find a proper positioning for man, nature and the Divine (see figure 1). The triangle allows to visualize the mutual relationships between the corners of the triangle. The distance and the elevation of the corner “God” can be an indication for the degree of transcendence of God above nature and/or man. In a pantheistic view, the corners for “God” and “nature” (and man?) would coincide and merge. In worldviews in which man is considered as a creature like nature, “man” and “nature” will be on a same horizontal line – this line being shorter the more man is merely seen as part of nature. Triangles in which the position of “man” is elevated above “nature” would then be symptomatic for a worldview in which man is not merely a creature like the rest of nature, but is endowed with some degree of divine dignity.

It can be useful now to take this “metaphysical triangle” as a framework for visualizing and discussing the ideas raised in White’s article. The “Dominion Terrae”-idea, which places humans in a dominant position compared to nature, can be seen as a combination of anthropocentrism (resulting from the privileged relationship between God and man) and disenchantment of nature.
For each of these sides of the metaphysical triangle, verses from the very first chapters of Genesis can be used as illustrations (and foundations?) of these attitudes. But scholarly methods in exegesis lead to results which seem less conclusive…

Biblical backgrounds: a first reading

White himself links Christianity’s attitude towards environment directly to the stories of creation which Christianity inherited from Judaism. He did not enter into the details of the text, however. Exegetic studies seem to support White’s view at first, but give a more nuanced image in the end.

In Genesis 1: 26-28, man’s mission in the world is expressed with words like “subdue” and “have dominion”:

Then God said, "Let us make man in our image, after our likeness; and let them have dominion over the fish of the sea, and over the birds of the air, and over the cattle, and over all the earth, and over every creeping thing that creeps upon the earth." So God created man in his own image, in the image of God he created him; male and female he created them. And God blessed them, and God said to them, "Be fruitful and multiply, and fill the earth and subdue it; and have dominion over the fish of the sea and over the birds of the air and over every living thing that moves upon the earth." (Gen 1: 26-28, Revised Standard Version (RSV))
Genesis 2:18-20 is also often interpreted as establishing man’s domination over nature (or at least: over the animals), especially in view of the power which is given to words and the significance of namegiving in Semitic cultures.

So out of the ground the Lord God formed every beast of the field and every bird of the air, and brought them to the man to see what he would call them; and whatever the man called every living creature, that was its name. (RSV)

In Genesis 2:15, man’s mandate over nature seems takes a different tone however:

The Lord God took the man and put him in the garden of Eden to till it and keep it. (RSV)

Other versions translate the second half of this verse as to dress it and to keep it (King James Version), to cultivate it and keep it (New American Standard Bible), or to work it and take care of it (New International Version).

One way to examine the correctness of the anthropocentric interpretations of these texts, is to refer to the original Hebrew text. In Gen 1:26-28 the Hebrew words indicating man’s relationship to the animals and the earth are radah and kabash. Radah has significations in the field of treading or squeezing, like one does with grapes in order to make wine; in the context of hostility among humans, radah has a meaning of domination. It is also used to express the sovereign power of kings. Kabash has connotations in the field of warfare (subjection of the defeated) or slavery (to enslave). With the evocation of these significances, man is indeed placed in a position of dominion and power over nature (Wénin 2007, p. 41; Hoge (1999)).

Gen 2:15 however uses the words ‘avad and shamar. Significances of ‘avad are to be found in the field of work: to cultivate the ground, to build, to serve, and even to worship or to honor (when used in a religious context). Shamar has meanings in the field of watching over something, guarding or preserving. These words do thus not have the same connotation of violence or power than the words used in Gen 1:26-28.

Biblical backgrounds: widening the interpretive background.

Whereas the first circle of meanings of the terms appearing in the stories of creation seems to have a rather obvious tendency, some theologians extend the field of associations, thus opening a much wider range of possible interpretations. Kanayankal (2009, p. 67-95) e.g. gathers a set of comments
associating the meanings of *radah* and *kabash* with royal authority (eventually conferred upon mankind by God). But the tradition of “kingship” in the Ancient Near East is loaded with ideals of wisdom, justice, righteousness, taking care of the well-being: in *conjunction with a vision of just governance in which oppression is actually crushed* (Kanayankal, p. 80). An interpretation in this sense would bring the scope of even so dominant words as *radah* and *kabash* closer to the words used in Gen 2:15.

Kanayankal continues his work by elaborating the theme of *Sabbath* in biblical tradition. With Sabbath, the human attitude of dominion and activism is mitigated by moments of withdrawal, rest, and reorienting towards God.

Gulick (1991, p. 187-188) points out that the *covenantal relationship* between God and humans is often seen as essential in the Bible. The “rainbow covenant” between God and Noah (Gen 9:9-10) includes the animals within its purview, and was often used as a symbol when the World Council of Churches adopted “*Justice, Peace and the Integrity of Creation*” as a working theme in the early 1990’s. Yet Gulick concludes that the Sinaitic covenant is essentially between God and humans, and that nature appears above all as *a resource, a potential punishment or gift*. Also the Ten Commandments (Deut 5), or the shortened ethics outline in the Gospel (“*You shall love the Lord your God […] and your neighbor as yourself*” (Lc 10:27)), do not explicitly mention nature as an object of human care or responsibility.

Others interpret the abovementioned verses in Gen 1-2 in terms of a *stewardship*. God doesn’t give creation to man in property, with the full discretionary powers this would entail. God remains the real owner of creation, and man has to account for the way nature is treated. The idea of a *co-creatorship* has also been put forward: the creatorship of God at the moment when he creates man in his image and gives him a divine mandate, is with that mandate co-transferred upon mankind. This then indicates that creation was not complete on the 6th day, and that human history can be seen as the continuation or completion of creation. Similarly, though slightly different, human work (although originally presented as a punishment) has been interpreted as a way of *restoring the original paradise* from which man had been expelled after the original sin, well aware of the “eschatological reserve”: the fundamentally utopian character of the Kingdom of God.

**Preliminary conclusion**

It is quite easy to find biblical references strengthening White’s view when he indicates Judeo-Christian tradition as a historical background for Western anthropocentrism. Genesis 1 can be read as a story in which the Jewish tribes, with their nomadic background, position their God as a creator above the other, nature-bound gods of the sedentarized surrounding peoples (the
beginning of monotheism). The Old Testament is also very critical in distin-
guishing God’s real prophets from alleged prophets who engage in magic
practices and evoke the spirits of nature. And throughout the texts the rela-
tionship between God and his people appears as special and privileged com-
pared to the position of nature. There are places where the beauty and won-
ders of nature are described and praised (like in Job 38-42); and yet even in
these instances nature primarily serves as a signal of God’s might and tran-
scendence. So in Psalm 8, the praise of nature’s beauty finally results in an
accentuation of man’s privileged position:

When I consider Your heavens, the work of Your fingers,
The moon and the stars, which You have ordained;
What is man that You take thought of him,
And the son of man that You care for him?
Yet You have made him a little lower than God,
And You crown him with glory and majesty!
You make him to rule over the works of Your hands;
You have put all things under his feet.
(Ps 8: 3-6, New American Standard Bible)

Mitigations of this anthropocentric view rely on theological connotations
linked to the interpretive contexts in which the Bible can be put, such as the
harmony-oriented images of the covenant or of a “Kingdom of God”.

Anthropocentrism and Disenchantment of Nature in Christi-
anity

Relying on the foundational texts for a tradition is but one way of under-
standing that tradition. It has to be completed by an analysis of the Wir-
kungsgeschichte. At some stages in the development of a tradition, the foun-
dational texts are referred to explicitly. This may especially occur on mo-
ments of crisis, either to go “back to the roots” (with sometimes a fundamen-
talist reading of the texts), or in a movement of aggiornamento, trying to
reinterpret the texts in the new circumstances. Reconstructing and reinter-
preting the development of a tradition inevitably occurs in a combination of
selective and constructive movements, and it is a challenge to do this in full
respect for intellectual honesty.

Browsing through history

Browsing through the history of Christianity and Western intellectual life,
examples of an anthropocentric and disenchanting attitude are legion. A few
examples:
Fathers of the Church, commenting on God’s incarnation in Christ, see herein also a divinization of man. So, e.g. Saint Augustine (354-430): “Factus est Deus homo, ut homo fierit Deus.” (Sermon 13 de tempore, PL39, 1097): “God became man, so that man could become God.”

On biblical grounds, Saint Thomas Aquinas (1225-1274) accepted that humans would kill animals. And where he yet wanted humans to refrain from cruelty against animals, he gives as a reason that this is “to turn the mind of man away from cruelty which might be used on other men, lest a person through practicing cruelty on brutes might go on to do the same to men” (Summa Contra Gentiles III, 112, trad. V. Bourke);

Pantheism was one of the factors leading to the condemnation for heresy of Giordano Bruno (1548-1600); the idea of an inseparable unity between the infinite God and the infinite universe, was found incompatible with catholic dogmas concerning e.g. sacraments and transsubstantiation, which can only hold if the material world is seen as fundamentally disen-chanted;

In Descartes’ dualism between res cogitans and res extensa, animals are on the merely material side; his view on animals is often resumed in the image of the bête-machine (17th C); man on the contrary is described as “maîtres et possesseurs de la nature” (masters and owners of nature) (Discours de la méthode).

Francis Bacon (1561-1626) saw nature as something which was to be conquered, be it by obeying (in this case: studying) it: “Natura non nisi parendo vincitur” (Novum Organon).

Occasions where nature is valued more positively, seem scarcer. White already drew the attention to the figure of Saint Francis of Assisi (1182-1226): in a culture where the fundamentally dualistic heresies like bogomiles and cathars saw material nature as emanations of evil, Francis’ attitude wanted God’s creation to be honored, also in its material expression.

It was not until the 1960’s that environmental care emerged as a theme of public concern and discussion in society at large. The churches made no exception to this: witness the abovementioned campaign “Justice, peace and integrity of creation” of the World Council of Churches in the 1990’s, and in the Catholic Church John Paul II’s Encyclical Centesimus Annus (1990, n 37), which states: “At the root of the senseless destruction of the natural environment lies an anthropological error, which unfortunately is widespread in our day. Man, who discovers his capacity to transform and in a certain sense create the world through his own work, forgets that this is always based on God’s prior and original gift of the things that are. Man thinks that he can make arbitrary use of the earth, subjecting it without restraint to his will, as though it did not have its own requisites and a prior God-given purpose, which man can indeed develop but must not betray. Instead of carrying out his role as a co-operator with God in the work of
creation, man sets himself up in place of God and thus ends up provoking a rebellion on the part of nature, which is more tyrannized than governed by him.” In the Catechism of the Catholic Church (1992, articles 2415-2418), care for animals and nature is mentioned as a comment on the 7th (in other churches: 8th) commandment, "you shall not steal”; inappropriate use of natural resources is interpreted there as a sin against the universal destination of the goods of the earth, including the interests of future generations.

Philosophical backgrounds: the Greek Connection

In White’s article, Christianity was mainly linked to Judaism as its historical background. It is often indicated however that the Hellenistic culture which prevailed in the Mediterranean area in the first centuries of Christianity, had a large influence in molding the young spreading religion. Influences of Greek philosophical currents can be found in the New Testament and in the writings of many of the Fathers of the Church. And the political structure of the Roman Empire was present at the background when the hierarchical structure of the Church was canvassed.

Boersema (1991) is one of the authors drawing the attention toward the influences of Greek philosophy, on two important moments of Christianity. A first hellenization took place during the initial spreading of Christianity, due to a combination of anti-judaic feelings in some tendencies of young Christianity itself, and the overwhelming presence of the Hellenic culture in the Mediterranean area. A second hellenization is to be found in the late Middle-Ages and during Renaissance, with the rediscovery of the old classic texts (often via their Arabic translations). Be it in different forms and proportions, Platonic, Aristotelic and Stoic traditions all recognize a hierarchical order in the cosmos, with man being at the top of that order (Aristotle) or being the main purpose of it (Stoa). Hierarchical thinking (which also present in the dominion terrae-idea) can be traced back both to Aristotelic and to Platonic traditions. To the extent that it is in the ‘nature’ of plants and animals to be at the service of mankind (Aristotle), and that ‘nature’ is a ‘telos’ with a normative meaning in his ethics, human use of plants and animals is accepted. Traditions rooted in Plato often accept a separation of a natural and some supernatural level. The dualistic body/soul anthropology in Christianity seems practically absent in Old Testament Judaism; one of the protagonists of this anthropology was Saint Augustine, under net neoplatonic influences. Even the idea of monotheism, which is usually linked to the triad of Judaism-Christianity-Islam, had its adherents in pre-Christian Hellenistic

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2 “The safest general characterization of the European philosophical tradition is that it consists of a series of footnotes to Plato” (A.N. Whitehead, Process and Reality, 1929)
thought: Ferguson (2010, p.184) reports how Eudorus of Alexandria developed an own interpretation of Pythagorean and Platonic ideas, resulting in the idea of an all-transcending One.

Disenchantment as an Inherent Trait of Christianity

The contemporary French philosopher Marcel Gauchet incorporated a philosophy of religion into his political philosophy. In his book *Le désenchantement du monde* (1985), he describes a specific kind of dynamics which seems present in “higher religions” in general, and in Christianity in particular. This dynamics finally leads to *la sortie de la religion*. “Sortie” is used in a rather ambiguous sense: it indicates the disappearance of religion (religion leaving the floor), but also the result of religion (what comes out of religion).¹

Religion primarily deals with the principle of heteronomy, otherness, dispossession of oneself in favor of the “beyond”. In primal religions, transcendence is not experienced “spatially”, but temporally. The gods surround humans in their living world, but link them to the primordial past (Cloots, 2008, p. 9-11). Around 5000 BC, the state arose as a level of authority between the gods and the humans: the beginning of a movement in which power and politics inserted a growing distance between the gods and man. The temporal distance from primal religions turn into an ontological and spatial distance. Finally, in what Gauchet calls “higher religions”, the gods are expelled from earth, and are seen as ontologically totally different. In Judaism, this “ontological duality is deepened into a real separation, through monothecism and creationism” (Cloots, p. 12). And that withdrawal of God from the world progressively enhances man’s autonomy and independence. The paradoxical conclusion of this is that the greater the gods are, the more man is free (Gauchet, 1985, p.64).

In Christianity, there is a specific logic through which this greater autonomy develops further (Cloots, pp. 14-20):

- Christianity is a religion of revelation: God reveals himself, through history, but also through creation itself: God can be known through the ”book of nature”;
- The emphasis on transcendence is mitigated by Incarnation: if God became man in Christ, this gives a proper dignity to the world. The religion itself indicates the world as a place of relevance, of concern. And as salvation passes through Incarnation, the mission of changing the world is bequeathed to man.

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¹ In the English version of Gauchet’s book, *The Disenchantment of the World*, “sortie” is translated as “departure”; this translation however does fully not render the ambiguity of the original French “sortie” (Cloots, 2008, p.7).
The notion of Incarnation makes that Christianity never settles in either mere submission nor escapism (although some movements in Christianity occasionally flirted with these attitudes). The world is a serious thing, requiring active attention.

- Finally, Christianity of a religion of interpretation. We do not know the *ipsissima verba* of Christ; we do have four gospels, which are interpretations already. And throughout the history of Christianity, that interpretation continues, either by *magisterium*, by tradition, by the *sensus fidelium*. The possibility of heresies, schisms, reformatious and dissidence seems congenital to Christianity. Hence, intellectual work is always part of dealing with revelation, thus stimulating autonomous thinking, philosophy, and eventually science.

At this point, it is no wonder that Christianity eventually leads to its own “sortie”: it will have to submit to the ideas of reasonableness and humanness. It accepts a full separation of the realm of the gods and the realm of worldly (political) authority (“Give to Cesar what belongs to Cesar, and to God what belongs to God” (Lc 20:25)). Whereas modernity is usually seen as a threat for religions, Gauchet describes modernity also as a result of religion.

Lynn White, as a historian, based his thesis mainly on his reading of history, and on his recognizing a thread from early Judaism to the times of industrialization. Theologians, exegetes and Church historians reworked his ideas, often finding elements confirming White’s intuition as well as elements mitigating, contextualizing or criticizing it. Gauchet’s political philosophy of religion gives another, more philosophically constructed carrying canvas for White’s intuition.

**More than Anthropocentrism, and More than Christianity.**

Two more threads are to be examined concerning the validity of White’s thesis:

- Are there any other aspects of Western civilization which can be relevant for this discussion (besides the anthropocentrism / disenchantment debate)?
- And what about other cultures? Can the observed similarities and differences between cultures with a Judeo-Christian background and other cultures account for the differences in attitudes towards nature and in development of industry?

*Time, progress and work.*

From White’s paper, the ideas of anthropocentrism and disenchantment of nature distilled as the key elements in his search for the historical roots for
the ecologic crisis. Almost casually, without really developing it, he also mentions the understanding of “time” in Judeo-Christian tradition as “non-repetitive and linear”. In cultures with a static or cyclical view of time, the idea of “progress” is hard to think. In the most dominant currents of Greek philosophy, the idea of a linear progress of history is virtually absent, time being primarily seen as static (in philosophies where “real change” is impossible) or cyclical (either in agrarian cultures, or in philosophies where the perceived cyclical movements of the stars and planets are dominant in the experience of time). And even if occasionally there is some kind of linear experience of time, it is only perceived as the distance elapsed between the past and the present; there seems to be no spontaneous extrapolation of this movement towards the future (Van der Pot (1985), p.30). Nomadic cultures tend to have another experience of “history”, with a past and a future. The originally nomadic backgrounds of early Judaism are hence often referred to as the source of the linear, unstoppable and future-oriented experience of time in the three monotheistic religions. Early Christianity was strongly influenced by the idea of an imminent “end of times” which prevailed in the Judaism from which it originated. The apocalyptic vision in Mt 25 (the “final judgment”) thereby instilled a sense of urgency, and stressed the importance of the very material earthly life.

Even within a linear experience of time, various views existed. Is there a beginning of time (t=0: Big Bang, the moment of creation,...) or not (time coming from -∞)? Will time or history come to an end (either physically – the Big Crunch – or at least culturally (Teilhard de Chardin’s “point Ω”, the “classless society”?), or will time continue forever (till +∞)? Until recently, scientists even theorized about the possibility of an oscillating universe, the singularity of a “Big Crunch” immediately leading to a new “Big Bang”…

In a culture with a future-oriented vision of time, the idea of (inevitable?) progress can develop: an idea of progress which has, in the Western world, almost self-evidently (except in primitivistic views of culture) been identified with technological growth. The 1972 book “Limits to growth” was one of the first to fundamentally question the possibility of permanent growth…

Besides the progress-oriented vision of time, the development of a positive attitude towards work is among the causes which are mentioned for explaining technological development in the western world. In Greek philosophy, a negative view on manual work prevailed. In Judaism, work appeared mainly as a “fact of life” which had to be accepted, even if there was always the reminiscence of Gen 3:19, in which labor appears as God’s punishment for the original sin. In Christianity, a gradual evolution towards a better acceptance of labor can be found: from the “Ora et Labora” of the Benedictine tradition, to the development of a really work ethos (attributed by Max Weber to certain currents in Protestantism). Even without the specific work ethos in itself, the Protestants’ belief in the right and the ability of individu-
als to form their own judgment in religious affairs had its parallel in scientific matters. Van der Pot (1985, pp. 90-91) illustrates the connection between scientific and industrial development and the early Protestantism by pointing out the disproportionate number of religious non-conformists or protestants among the entrepreneurs in England and Wales around 1770, the founding members of the Royal Society for the improvement of natural knowledge in London in 1660, or the foreign members of the Académie des Sciences in Paris between 1666 and 1883. Although one must always be aware of the difficulty in establishing a causal relationship between cultures in general and the currents that are part of these cultures (in Protestantism a cause or a consequence of the changing times?), these considerations about the rise of Protestantism can help answer the question why (if technological development and our dealing with nature are tributary to Judeo-Christian tradition, and if Christianity became a dominant factor in Western Culture since the early Middle Ages) it took about a millennium for that scientific-industrial development to lift off.

Confrontation with other cultures

Islam is undoubtedly the religious movement which has most kinship with Judaism and Christianity. All three are religions of revelation, having in common many figures and stories in their fundamental texts. Qur’an (e.g. 7:45 and 15:26) refers to creation in very similar terms as the Jewish and Christian Bibles. And Avicenna and Averroes are but two of the important philosophers and scientists of the flourishing Persian and Arabic cultures, at the moment of the Middle-Ages in the West. The dominion terrae-idea is however far less distinct in Islam. The idea that the earth is Allah’s gift to man, and that man is called to rule over nature as Allah’s representative is not unknown to Islam (Van der Pot, 1985, pp. 501 and 1081). But this idea found a strong counterpart in a current in which the 11th-12th century philosopher al-Ghazzali played a major role, who found that every attempt to take power over the world by science or techniques must be seen as an offense against Allah’s omnipotence (translated from Van der Pot, 1985, p. 43). With the idea of “submission” being present in the very meaning of the word “Islam” itself, the distance between man and Allah in the metaphysical triangle (fig. 1) is much larger than in e.g. Christianity (Gauchet, 1985, p. 93; see also Cloots, 2008, p.15). Allah’s overwhelming presence is such that nothing (no form of political power, no form of knowledge) can be seen as “purely secular and divorced from the ultimate goal of human existence” (Van der Pot, 1985, pp. 43-44).

A common feature among many Asian philosophies and spiritualities seems to be the absence of a deity which would be conceived as a person possessing all desirable human qualities on a super-eminent level; no overarching, supernatural, omniscient, omnipotent and willing super-rationality.
Instead of a separation between the profane and the divine, a sense of harmony, interconnectedness prevails. The idea of opposing and tearing apart the corners of the “metaphysical triangle” would there be perceived as quite artificial. Spiritualities including a form of reincarnation further confirm the idea of a fundamental unity between mankind and nature. Man is not positioning himself against nature, but within nature. The aspiration to dominate the world – allegedly so typical for western cultures – would in Buddhism be tempered by the conscience of the “impermanence and insubstantiality of life” (Henning, 2006, p. 15), or by the desire to transcend “the illusions of the self” (Cloots, 1985, p. 15). With compassion, moderation and humility as its “Three Jewels”, Daoism has no place for the idea of human domination either. The ideal human action is wu wei: non-coercive activity (compared by Nelson (2004) with Heidegger’s Gelassenheit). Man is not to impose him/herself upon the world, but to live in attunement with it.

Although this exploration of Eastern spiritualities is far too short to render their full nuances and significances, the contrast with the Western attitude of rational exploration and manipulation of the world is obvious. The breakthrough of a Western-style industrialization in e.g. India and China is hence seen by many as a rupture with traditional local values.

The Empirical Turn.

Excerpting ideas, intuitions and logic in religious or philosophical ideologies is one thing, finding out what people really think may be something different. Minteer and Manning (2000; also in Minteer (2003)) and de Groot (2010) conducted empirical research on the attitudes of people regarding nature and environment. The Canadians Minteer and Manning identified a range of 17 “types of environmental ethics”, brought together in five clusters. On the extreme ends of the scale there are an anti-environmental attitude (nature is seen as a source of physical threats or of spiritual evil) and radical environmentalism (considering all living things as interconnected, valuable, or carriers of rights). In between these extremes lie attitudes of benign indifference, utilitarian conservation, and the stewardship-idea. De Groot’s research took place in The Netherlands, France and Germany. She too started with a set of images of the human/nature relationships; statistical analysis of the answers revealed however that it was better to rearrange and slightly redefine the clusters. She came to a subdivision in which the human/nature relationship could be described as “Master”, “Guardian”, “Partner” and Participant”, with “guardianship” being a more ecocentric variant of the traditional “stewardship”-idea. It appeared that almost all respondents (91%) agreed with the guardianship-image, followed by “partnership” (52%), “participation” (28%) and “mastership” (15%).

One of de Groot’s conclusions is thus that the mastership-idea, although generally described as being typical for the Western world (and often com-
mented on, like in White’s and this article), and although discernible in major religious and philosophical theories, is not supported by the majority of the population; in fact, virtually all respondents recognized nature to have some intrinsic value. However, these views like held by individuals, are not always reflected in the attitudes of organizations and institutions, which often concentrate on economic utility. “The tapestry of our life is, to a large degree, woven by institutions and many of these fail to recognize and exploit the public basis for nature-friendly institutional action.” (De Groot, 2010, p. 120).

Conclusion

Maybe the turmoil caused by Lynn White’s 1967 article was partly due to the accusing tone he used. From a historian, one can expect a descriptive study, starting from his/her reading of the facts, causes and consequences in the line of history. By translating “roots” or “causes” in terms of “guilt”, White struck a normative tone, which made some authors rush to the defense of the accused, even if the factual information gathered by White had little new in itself.

Secondly, even indicating discrete events as causes for a situation can be a risky task; interpreting a millennia long tradition, with all the currents and evolutions it has undergone, inevitably limps by being selective and constructive at the same time. One can indeed see a thread of activism, anthropocentrism and disenchantment of nature through the Judeo-Christian tradition. And yet; that same tradition also knew moments of awe in front of nature, of withdrawal and rest instead of work, of awareness that salvation cannot just be produced, but must be received. The same tradition which is linked to progress and activism, has also been accused of conservatism and obscurantism. Christianity is the religion of Saint Francis as well as Inquisition; of liberation theology as well as strict ritual fundamentalism. Yet, by its dominant position in Western history, Christianity cannot deny that it played a role in the development of the actual society. Gauchet saw modernity and Enlightenment as an offspring of Christianity itself; and industrial revolution is undoubtedly rooted in the same movement of gaining confidence and claiming liberty in religious, political and economic matters. In Christianity, the imperative to take actively care of the others, and the taking serious of suffering are elements which should prevent it from sliding into either escapism or mere submission (although both tendencies were certainly present at times).

At least in Western Europe, the situation of religions has changed drastically the last few decades. In many countries, traditional Christianity is shrinking, leaving the room for a largely secularized society. In other countries, a revival of religions can be noticed. And the mixture of cultures by migration (as well intra-European as from abroad) is far from stabilized.
Finally, the worldwide awareness of globalization, with its political, economic, technological, environmental and cultural aspects, complicates and intensifies the challenge of investigating and reflecting on the ways cultures influence, adopt and adapt new situations.

To be continued…

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