BOOKS

A STORY OF US: A NEW LOOK AT HUMAN EVOLUTION


Reviewed by Gregory F. Tague.

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A Story of Us by Lesley Newson and Peter Richerson is a smart and engaging book by two seasoned thinkers and scientific writers. For an academic work the book is lucid with a strong writing teams, like Ann Druyan and Carl Sagan (Shadows of Forgotten Ancestors). The reference to Sagan is appropriate since Newson and Richerson include, like Sagan in Chapter 7 of his acclaimed book Cosmos, an account from the perspective of a human ancestor. The stories embedded in each chapter by Newson and Richerson are ingenious and appealing and reflect the solid scholarly material presented simply and directly before and after any given story. All the pieces fit together nicely. Newson and Richerson's book is enjoyably readable and profoundly informative about the power of cultural evolution. I'd recommend this book to students of the human career, to borrow from paleoanthropologist Richard G. Klein, and especially to college instructors across disciplines using the word "culture" in their course descriptions. In this way students would better understand what culture encompasses, how it evolved through human history, and its continuity and discontinuity with our recent and distant ancestors.

In their title, Newson and Richerson emphasize "us" because human thinking and enterprise succeed via social learning and cultural networking. As cultural evolutionists, I wonder if their title is a response to Joseph Henrich's book The Secret of Our Success. Henrich shamelessly tells how humans are supremely unique by having dominated nature. While Newson and Richerson lean in that direction, they are more realistic about the fluctuations in human prehistory and the questions about our future on the horizon. There is no special ingredient to being human; there is no human nature. Rather, what differentiates us from other species (a word they eschew) is our ability to evolve culturally, an evolution that can be rapid as opposed to the gradual changes that occur through natural selection. Philosopher of science Tim Lewens, as in his book Cultural Evolution, would say that Newson and Richerson are more geared to population systems as opposed to evolution via genetic inheritance. Of course genes respond to environment, so chemical DNA is part of the equation, but any given population, indeed the compounding of multiple populations, consists of an "environment" that can trigger genetic response.

The book is neatly divided into eight chapters, and each chapter takes us through a different period of human history. The authors' subtitle claims the book is a "new look" at human evolution, since leverage is placed on cultural evolution in and across groups. They are less concerned about genetic variation and inheritance through individual selection. As part of each chapter, there is a story that narrates what someone of that time would think, feel and experience on a visceral and communal level. We start with ape ancestors to highlight the mother-infant bond and food foraging. From time to time, beginning at this point, the authors reference the human brain and how it's larger in size than that found in living great apes. With care, they do not suggest that one species is necessarily better than any other. Rather, there could be adaptive peaks—and apes evolved to fill their ecological niche in ways that early hominins did not. We pretty much left the forest behind. The authors' discussion of Ardipithecus and Australopithecus, some of the early ancestral relatives of humans, is clear and easy to understand as they take readers through changes in physiology and morphology. They cover lots of territory but, importantly, they stress

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LEONARDO REVIEWS

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the communal and social behavior of apes, spending most of their time on chimpanzees and bonobos, our nearest relatives. Chimpanzees are the most advanced and habitual users of tools, for instance. The upshot is, to use the authors’ terminology, “culture introduces more flexibility.” This means that apes’/humans’ behavior is influenced by the practices around them and those they inherit through family, peers and other groups. This is echoed in the title of a book by Peter Richerson and Robert Boyd: Not by Genes Alone. Genes help bodies grow in reply to external cues, but culture helps young apes learn how to forage and for what, how to use tools to extract termites or nut foods, how to socialize, etc. These are cultural activities: Field primatologists know that inherited behaviors differ among groups across various locations.

Since australopiths around evolved bipedalism three million years ago and spent time outside of the forest in the savanna, cooperative groupings and signaling would have been advantageous. Different foods are spread more widely in this environment, so alloparenting was likely used for mothers to help each other. Newson and Richerson ably explain how adaptations from natural selection were beneficial, e.g. losing body hair for cooling while maintaining head hair for protection from sunlight. Importantly, the hominin-child bond is weaker than that in apes to allow for shared parenting by, mostly, females. In turn, this codependency helped evolution with brain adaptations for successful cooperative living, less aggression, emotional expression, demonstrative control and punishment. All of this explains cultural differences between groups. Cultural inheritance can be selective in how a youngster sees others process foods or behave socially, which is different from adaptations such as gut formation from genes. If many people (or apes) in the group vary a food processing practice, a youngster might be selective in whom to copy. In turn, this learning by imitating those most successful creates a feedback loop in the individual and group for innovation. Then, this group information is shared, copied, improved and passed on. While cognitive genes are part of this picture (the mentality of apes, as primatologist Wolfgang Köhler would say), intelligence output is geared more to the population. Any advantageous food processing and sharing would increase survival of individuals in the group, enhancing additional cultural advances. As groups become too large, they split and move on, with a transfer of cultural knowledge that can be ratcheted up yet more.

As the chapters logically proceed chronologically, Newson and Richerson get closer to our own time. Early humans from over one million years ago are covered. Beyond competition in natural selection, humans were—and still are, they insist—generally more cooperative than selfish. This supportive behavior helped early humans travel out of Africa to Asia, Europe and farther afield. Natural selection would enter the picture here in terms of favored traits, like altruism, which enabled families to thrive over highly competitive groups. Even Charles Darwin recognized this in Chapter 4 of The Descent of Man. The authors also connect the evolution of a larger brain to early human abilities of cutting, pounding, fermenting and eventually cooking a variety of foods. The technique of processing food so that it is, essentially, predigested reduced the size of our teeth and intestines in a gene/culture coevolution. However, some cultural adaptations can improve but not totally erase genetically evolved instincts. Nonetheless, cultural adaptations grew our brain, which required more energy and reformed our bodies to be more gracile since we could find and refine food in ways unlike, say, a lion.

Half a million years ago we were nomadic hunter-gatherers, much like our ancestral relatives of over a million years ago. At that time, Newson and Richerson say, some of our recent cultural traditions, such as arranged marriage, might have begun to take shape. There were not many humans then, compared to other animals, but their brains and culture helped people survive in ways where other creatures physically adapted. We know this because there were wide variations of climate temperatures that ultimately lead to ice ages. In a coevolution feedback, environmental fluctuations enabled a plastic brain to develop creative survival techniques such as cooperative group sharing of goods, services and information, which expanded the brain yet more. By around one hundred thousand years ago there were probably more stable family structures, the authors say, with the beginnings of a division of labor and a system of justice. We are a cultural species; feelings like shame and disgust are shared across societies but expressed in different ways. Social emotions are strong motivators, important tools for any group, and are why people from different cultures can ultimately assimilate into one not natively their own.

Culture is in many ways a network of brains thinking and acting alike, helping and caring for others without anticipating a reward. This is why, the authors believe, all prosocial emotions we experience are derived from our ancestors, since they survived to pass these feelings to us. Culture is like genes in the sense that it wants to reproduce. People who chose not to bear the hardship of pregnancy or the responsibility of parenting did not pass on those beliefs. Rather, the people who valued family passed on what humans inherited. They note that marriage became a stable norm, a successful cultural glue that was inherited and disseminated. Likewise, widening the sphere, these norms of connectivity helped groups interact, and so on.

In spite of the ice age around 30 thousand years ago, humans were thriving across Europe, Asia and Australia. Art culture began to appear in the fossil record, ranging from carved figures, jewelry, musical devices and parietal art preserved in caves. Mammoth hunting would have required considerable skill and the cooperation of many. All the dead animal’s meat, fur and bones were used for some purpose. Culture adapted to the ice age and facilitated humans to adapt. Much more
After the Global: Curating after the Global is a timely book that addresses the current crisis, which is seen as part and parcel of the monstrous situation it describes. It responds to the phenomena of a globalized (art) world of which contemporary art, with its now almost countless international biennials and art fairs, can no doubt be seen as one of the drivers. Curating after the Global tries to formulate an answer to this ongoing conundrum by addressing it in three sections: Diagnoses of the Current Conjuncture, Exhibition Histories, and Institutional Re-Positioning. Of these sections, the first is a rather top-heavy, predominantly political analysis, whereas the second tries to offer hope by discussing projects that refuse “to engage with the global as driven by capitalist marketing, finance and data management” (p. 127). The third section evolves mainly around “Instituents"
Solidarities toward the End of Western-Centric Globalism," as Paul O’Neill calls his introduction.

Although for a large part certainly fascinating and informative, I find this volume at the same time troublesome. This might be a personal issue. Having begun my own curatorial career in 1987 by “just” making exhibitions and eventually getting interested in them as a form of research, I observed with suspicious eyes the development of “the curatorial” and especially the seemingly endless stream of publications that surrounded it. At times this led to interesting insights, but as Yaiza Hernandez Velazquez suggests in her contribution, “a philosophy of ‘the curatorial’ is at risk of turning into philosophy minus the confrontation with philosophy’s problematic history, that is to say, of turning into pseudo-philosophy” (p. 260). It speaks in the editors’ favor that the volume brings together various contributors who, at times, question the notion of “after the global” and put it back into context. Although I am certainly far from averse to a theoretical approach to curating and thus not one of those who urge curators to stick to the craft, as Hernandez Velazquez describes it, I do feel that at times the elephant in the room is more than overlooked. Curating and the curatorial these days are certainly not exclusively about art, as the terminology has been inflated to include practically any organizing activity. The lack of art per se and the caring for art seems, however, at the heart of the problem. When Paul O’Neill in his Postscript writes about exhibitions as being a form of escape for art to just being art, I slightly despair—and probably many artists with me. Might this volume then be proof of a final deficit of the curatorial? Or at least of how it is currently being practiced? Despite the fact that there’s much talk about care, collaboration and attention for the other in the various contributions, the volume still seems to miss the point.

More than once the feeling arises that much of what is here being described as “Roadmaps for the Present” comes down to reinventing the wheel, which might have been avoided by a closer observation of what is being developed by artists and curators who continue their craft without the burden of the curatorial blowing in their neck all the time. The global indeed often reigns at cost of the local or the small. Quite symbolically, perhaps, this is also the case for the publication itself. At first sight it is beautifully designed, with extensive color pages dedicated to the installation Slow Rolls and Monopolos by Emmanuelle Lainé, shown at Luma Arles during the conference in 2017. At times, however, the contributions lack images, especially if they describe art works or practices. Ironically, it is exactly in design or more specifically “design thinking” where Prem Krishnamurthy and Emily Smith take refuge in order to develop a new curatorial methodology, which they call Responsive Curating, much of which seems actually to be daily practice for the average professional curator. Despite all the care that managing editor Gerrie van Noord talks about in her “final word” and that she no doubt puts into her work, the footnotes must have escaped this care, since they are printed in such a light silver grey that they have become as good as unreadable. Since, especially in her section they take up most of the page, this becomes problematic. Skipping the footnotes might be exactly the point where things go wrong.

Having gone through most of the contributions in detail and having read many with interest, it seems that despite all good intentions nothing much seems to have changed since The Curatorial Conundrum except for how the world functions these days. Maybe it’s finally time for a radical overhaul of the curatorial as the one and only “Road for the Present”? 

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theory and practice would at the very least refuse to be thus co-opted and that at best might become political in a performative way (like "abra-cadabra" or "open sesame")? We need to problematize new media art, the making, theorizing, curating, teaching and historiography of it. But what do these questions mean today? It's all so chaotic.

Thomas Kuhn's model of scientific progress (to simplify) was that it proceeded via periods of "normality," with generally accepted paradigms, interspersed with periods of chaotic revolution when the paradigms became untenable, until a new dominant paradigm emerged and normality reigned again. The new dominant paradigm is surely a function of the old, due to evidence and other pressures: money, politics and zeitgeist all playing a part. In general, looking in the rearview mirror, we can usually see how we got "here." But with computer-based art, with new media, there is no normality at all, only constant revolution and turmoil, and if you look back in the mirror all you see is the preceding chaos: It can be hard to see how we got here. Little wonder that easy models for the progress of technological art, if progress it be—change, anyway—are technological ones (almost business models in the 1980s and 1990s)—but without the political dimension that normally might be expected to accompany even such an inquiry. Politics has no presence there. A politically characterized model of the development of computer-based arts and new media, their production, celebration, curation and memorialization, encompassing perhaps everything from SIGGRAPH and MIT to research centers, institutions, public versus classified research, individual versus communal activity, web art versus the gallery wall, telematic versus automatic and so on (not always in struggle, of course) would generally be seen as taboo. It is thus not surprising that questions within new media art have often tended to be devoid of political content, even when the purported subject of the work was itself a political object. It sometimes seems that everyone knows this, but no one actually does anything about it. So this book and other works by its begetters and contributors are very welcome. The editors explicitly have a paradigm that "the technological advances in current media cultures are best understood against a backdrop of an extensive media and art history" (p. 11), which is refreshing.

One of the editors, Oliver Grau, is an influential figure in the fields of media archaeology and humanistic investigations of what is going on when people make and experience media art. That he is also an art historian is a great antidote to those who would simply apply the internal criteria of media arts to any discourse about them. The other editor, Inge Hinterwaldner, has also researched, written and argued persuasively for deeper investigation in these and other areas, adopting a broad bandwidth of methodologies and stressing the importance of flow and fluidity against static (perhaps both literally and metaphorically) ways of interpreting. She too has plenty of background in actual art history.

Does it need emphasizing that the "art" bit of media art means that it has to be considered as . . . you know . . . art, and not just technological spectacle? The medium is not the art. The cellars of museums of modern art contain fractal images from the 1980s that looked a bit like art and arrived with their own aura of mystification in the age of their mechanically enthusiastic reception. Being able to enter a world of such stuff and explore it in 3D virtual reality might be many useful things, but it ain't art. There are many analogous works being produced in 2021. It also needs emphasizing yet again that decora-
tion, even in n-D space, is not per se art, and neither is graphic design. My definition of art is "a more or less systematic inquiry, often visual, whose goal is knowledge," notwithstanding that other goals may include money, fame, applause, retrospectives, faculty positions and so on.

So . . . does this book help even so prejudiced and hypocritical an artist and theorist as this reviewer? We certainly need an examination of the political dimensions of new media art and its archaeologies. There are not enough direct studies around, although, of course, many touch upon this. The present work, based as it is on outcomes from the excellent conference series on the Histories of Media Art, Science and Technology, covers a wide spectrum. It must be noted too that the book is about media art as science, as polyvalent progress, among other things, and celebrates the work as more than artwork.

In their introduction, the editors write that the book "poses the question of what 'political iconography' is and means today. It asks which strategies are recognised, unveiled and commented on as the operational foundation, and which countermeasures are considered adequate. In new media art (theory), showing this is often closely linked to the operational, to action" (p. 11). So there we go: performative theory, which I like and which might be another near-definition of art.

The contributions are placed in five different sections, the first being Political Dimensions in Digital Imagery, in which Grau celebrates the multifariousness of digital media art as potentially able to deal with complex societal issues such as globalization.
or surveillance. He argues that we need to understand the mechanisms of its generation, how these correlate within and outside media art and how they impact on present and future societies. He even calls digital art “a political iconography of the present.” Of course, saying that doesn’t make it so, but it could be—and some might argue that it should be. Perhaps the best and worst is. Grau has sought to correct the lack of such art in various kinds of collections and memory banks, correctly arguing that society needs to see itself thus represented in order to understand itself, a complex representation that needs the richness of digital art to carry it. “We are . . . almost completely excluded by our own museums and archives from reflecting on the issues of our time through its relevant art” (p. 101). The Archive of Digital Art is just one of his corrective projects.

The trouble is again that of the spectacle, whose condition, like it or not, much media art does approach (although this is presumably what the present book seeks to correct). We might all agree that the museum, gallery and other curatorial spaces have to change, be dimensionally expanded or even replaced. But media art has a responsibility, as if it hadn’t already enough on its shoulders, to achieve adequacy as art, even if that art is to be redefined. It’s a two-way process that a perfect media art qua art could accomplish, and I believe that this is a goal to aspire to.

Most of the contributions use particular artworks, events or aspects of media and media art to point up discussion about surveillance, global ecology, AI and “The (In) Visible Structures of Information Systems.” Grau’s section is preceded by a more specific one from Ingrid Hoetl: “Image-Transaction, What You See Is Not What You Get.” She applies a transactional process view to the status of the image in digital networks. Taking The Transparency Grenade, an artwork shown in Berlin’s Transmedial in 2012 and consisting of a model of a military grenade that captured nearby network traffic and audio, she argues that the fragments of this data shown on a screen change the image from a “lure” to a place of critique. Many of the other systems discussed in later sections also turn inside out the idea of an artwork or other cultural object or process as a result, a product, making public that which was hidden—be it data, assumptions or indeed the political dimensions underlying various aspects of the work, or society, the museum and so on. The point is to open up everything surrounding new media—its objects and artworks—and yet to somehow simultaneously incorporate them into the artwork in an experience of it. Examples of this are Mathias Fuchs’s opening up body movements, gestures and cues to emotions in computer games by discussing their actualization in real life, or an analysis by Elisa Arca and José-Carlos Mariategui of Teresa Burga’s use of her own body as source and ground for information-theoretical work back in the early 1960s.

In a way, these instances of “opening up and yet folding back in,” if I can call them that, remind me of cybernetics in early work by Stephen Willatts, such as his 1973 Metafilter, and the concept of a “state of agreement” mediated by a computer. Several parts of this book echo, overtly or in passing, a return to cybernetics as a valuable tool in understanding the participants, human or not, in systems of conversations about and contained in media artworks in the widest possible sense. It may be that the retracing of political dimensions in the art is itself a work to be undertaken by artists as well as historians and theorists. The corollary is that the deconstruction and reconstruction of media archaeologies, memorializations, conferences, events and, indeed, books profit from being seen as actual or quasi-artworks too. The questions we might ask then are the questions we should have been asking since media arts began. The book is a reminder of that and a way into problematizing and enriching, with the dimensions of all its surrounding cultures, an art which necessarily contains and examines within itself these connections and hence represents ourselves to ourselves, writ large, more transparent and possibly even savable. For those of us sitting wondering how on Earth art can reflect upon and contribute to the struggles we currently face, this book is very timely.

GREEN ENERGY AND INFRASTRUCTURE: SECURING A SUSTAINABLE FUTURE


Reviewed by Robert Maddox-Harle, Australia.

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This book is more or less a companion volume to Sustaining Resources for Tomorrow, which I reviewed for Leonardo (June 2020) [1]. The two books, by the same editors, are essential reading for all those interested in the immediate and long-term future of our planet.

There are 13 chapters; all are well written and interesting. They may be read in any order to suit the reader’s specific interests. As with the companion book, the main thing that impressed me is the lack of hysterical, one-sided, fanatical hype that often accompanies the arguments on either side of the sustainable future debate. This book is in some sections a little complex, especially in the statistical analysis and specialized scientific areas; however, it presents clear factual discussions that appear unbiased. This is of the greatest importance because the stakes are so high—what we do now will either allow survival or bring about extinction of, at minimum, our species.

It is fairly obvious that if we continue producing and polluting as we have been, the future looks gloomy; however, the ghls, poorly researched answers to our problems by extreme conservationists do not provide satisfactory, sustainable practices for the future. How do we proceed? This book does an excellent job in a realistic way by dispelling many myths as it attempts to bring the “facts” to
our attention with detailed real-world scenarios.

The book has a rather poor, scanty Preface followed by the 13 chapters, numerous illustrations and a very good Index; all essays have detailed references, useful for future research. The chapter titles will help prospective readers get a clear picture of this book's approach:

2. Green Design Effectiveness for a Mini Automotive Repair Facility
3. Green Hospitals and Sustainability: Case of Companion House of a Research Hospital
4. Indoor Environment and Well-Being: The Case of Academic Workplace in Historic Building
5. Properties and Conversion Technologies of Biomass
6. Wind Resource Forecasting Error in Flat and Complex Terrains
7. Wind Power Forecasting via Deep Learning Methods
10. Hydrostatically Compensated Energy Storage Technology
11. Bioconstruction and Harmonic Complexity of Biomimicry Organisms
12. Back to the Basics: Return to the Origin, Gaudi and Nature
13. Triple Bottom Line Analysis, Methodology and Its Implementation

The first is a very important chapter as the creation of our built environment uses massive amounts of energy and resources:

A major user of energy is the buildings and construction sectors, whether commercial or residential. Although the energy used in buildings as a sector does not attract as much media attention as the other categorized energy-usage sectors, it is proportionally just as significant, if not more so, than the transportation and industrial sectors. According to the 2018 United Nations Environmental Programme report, the building construction and operation sector accounted for, 36% of global final energy use and nearly 40% of energy related carbon dioxide (CO2) emissions in 2017 (UNEP 2018) (pp. 1–2).

The last chapter looks at the big broad picture by discussing the three pillars of sustainability: environmental sustainability, social sustainability and economic sustainability. This chapter makes it quite clear that my previous remark about glib answers being unsatisfactory is correct, that we need to consider the overall complexities not just the “solar power will fix everything” mentality.

The road to achieving sustainability is a difficult one indeed; we cannot achieve sustainability without considering the three pillars of sustainability, just mentioned, or by leaving the problems to others. We all live on this planet together and have to be aware of the problems and make our own, however small, contributions to a sustainable future for ourselves and our children. This book helps greatly in this urgent action by putting into practice a C.S. Lewis quote in the Preface: “The task of the modern educator is not to cut down jungles but to irrigate deserts.”

As with *Sustaining Resources for Tomorrow*, this book is also essential reading for everyone interested in their own and their children’s futures. Also, as I previously mentioned, I can envisage many artists, including those avant-garde of the *Leonardo* community, being inspired by the wealth of information and ideas in this book to create works of art that will bring to the public’s attention sustainable ideas in provocative and stunning projects.

**Reference**

1. Printed in *Leonardo* 54, no. 2 (2021), the review may also be seen at: www.leonardo.info/review/2020/06/sustaining-resources-for-tomorrow.

**THE EMPATHY DIARIES: A MEMOIR**


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Sherry Turkle’s exemplary research on technology as it relates to humans, personal relationships and children has provided key insights as the computer has ingrained itself in our world. While her early chronicles on innovative technologies were impressive, I felt that the more important contributions were her insights challenging the unbridled enthusiasm of innovative technologists and how technology often compromised privacy. This memoir—primarily devoted to the period from her childhood through her tenure appointment years (1948–1985)—presents more details related to the person behind early works like *The Second Self* than the researcher who later penned *Life on the Screen* and *Alone Together* [1]. That said, the book does cogently capture how Turkle came to the interdisciplinary framework that has often set her apart. Or, as she puts it, “I found my life’s work by navigating as a bricoleur, trying one thing and stepping back, making new con-
admired: my aunt's intelligence and But I had tried to take what I most was focused on finally leaving home. dent intent on going to Radcliffe: "I also learn she was an exceptional stu-
mother, and her Aunt Mildred—had made her the center of their lives. We loving adults—her grandparents, her add, she understood that four with her because of her name. In One, she felt something was wrong grew up with two deep convictions: use her second husband's last name because her mother wanted Turkle to marriage created identity problems of his family. Then, once her par-
tembering" (p. 241).

The volume is divided into three parts. The first part introduces her from childhood to her early college experience (1948–1968). We discover that while she felt a part of her family as she grew up, she simultaneously developed the sense (and the clarity) of an outsider. Some of this came about because her mother believed that any "reality" could be claimed as real. Turkle therefore had to decipher how her mother was interpreting reality because her mother's "facts" didn't always conform with the world Turkle experienced. By contrast, her biological father's love of science made it easy for him to lose touch with the human needs of his family. Then, once her par-
ents divorced, her mother's second marriage created identity problems because her mother wanted Turkle to use her second husband's last name even before she was legally adopted. The upshot of this was that Turkle grew up with two deep convictions: One, she felt something was wrong with her because of her name. In addition, she understood that four loving adults—her grandparents, her mother, and her Aunt Mildred—had made her the center of their lives. We also learn she was an exceptional student intent on going to Radcliffe: "I was focused on finally leaving home. But I had tried to take what I most admired: my aunt's intelligence and integrity; my grandmother's empathy and resourcefulness; my grandfather's tenacity. As for my mother, I wanted her capacity for joy in small things, the energy she brought to every moment" (p. 77).

This section of the book allows the reader to understand how Turkle developed at a young age a sense of dépaysement, the feeling of being a stranger in your environment. It does not fully grapple with the paradox that she felt like an outsider at Radcliffe, despite its reputation as one of the most elite (or insider) colleges in the United States. (Radcliffe was known as Harvard's sister school, and while she was there the school offered joint Harvard-Radcliffe diplomas to undergraduates. Later the two schools were fully merged.) Rather, the focus is on developing the "outsider" theme that threads throughout the book. As an ethnographer of technology, she studied how people think about feeling like an outsider. As a social scientist who wanted to combine thinking and feeling, she was unlike those who cherished data sets and experimental methods. Later, as computers became more firmly entrenched, her critical questioning of some technological tenets continued to position her on the outside of mainstream trends: "So even when I got MIT's impri-
matur [tenure], I never had a sense of belonging" (p. 326). Within this, a complementary thread was how her professors and colleagues helped her access the kinds of tools she needed to develop critical thinking skills and to capture her reverence for topics she cared about passionately.

Part II (1968–1975) introduces the author finding her voice even as she reestablishes that the "outsider" sense she developed as a child remained. Some sense of difference came through loss. For example, her mother's death revealed that she had hidden her cancer from her daughter for ten years so as to not disrupt her quest to enroll at Radcliffe. Turkle was subsequently forced to drop out of school due to a rift with her stepfather, who refused to fill out the financial forms she needed for her scholarship. This led her to Paris, courses at the prestigious Sciences Po school and a group of prominent French thinkers who were influential in the May 1968 movement. Congruently, she was moving toward a desire to understand how ideas impact personal identity. It was during this time that Turkle recognized that both psychology and ethnography would help her to analyze the inner history of ideas: the psychology of how people change their minds, in particular. A key insight is used to sum up this period. When she recognized that those at Harvard who studied the psychology of thinking were on a different floor from those who studied the psychology of feeling, she realized that she wanted to do work that put the two together. She also began to realize that she didn't think like an engineer; rather, her bent was toward tinkering as a form of cognition.

A sojourn in Chicago to study with anthropologist Victor Turner eventually led Turkle to see she wanted to pursue an intimate ethnography of contemporary life. On returning to Harvard, her work with George Homans and David Riesman was influential. Reisman, in particular, informed her work on social media. The other-direction construct led her to postulate that, in social media terms, one might say, "I share, therefore I am." A major issue that began to become clear to her during these Part II years was that her interest in social change and the inner life—the inner history of ideas—was not moving in the same way as the field of academic sociology, which was becoming more quantitative and focused on measurable outward behavior. Nevertheless, and despite her reservations about quantitative thinking, she was invited to fill a general slot in a program at the School of Humanities and Sciences that Harry Hanham was setting up at MIT. This proved to be a foundational part of her unusual career path. The idea was for her finish her dissertation and then stay on as an assistant professor.

Landing at MIT in the mid-1970s put Turkle in an environment where computer scientists and artificial intelligence researchers were develop-
ing models that imagined the mind as a computational machine. They saw behavior as programs in which the software was as yet undetermined, a thesis that gave her pause because it omitted human feeling and emotions. Still, her time there gave her the opportunity to see how children reacted to their first experience of the computer and how the early personal computers, which were built by the users, changed. Replaced by plug-and-play options like the Apple II, the newer models came complete with a screen, keyboard, expansion slots for a printer and floppy disks for storing one's work. She also deciphered that the kinds of questions people asked about the mind and machines were changing with technological developments.

Part III (1976–1985) centers on Turkle's time at MIT and her marriage to educationist Seymour Papert. Turkle joined the Technology Studies program (later the Science, Technology, and Society, or STS program) and DSRE (the Division for Study and Research in Education), headed by Benson Snyder, where Papert worked. This section of the book includes vignettes about many people at the forefront of early efforts to study learning, to decipher consciousness and to engineer minds (e.g. Marvin Minsky and Joseph Weizenbaum, as well as Papert). The historical value of these conversations is well worth the price of the book. During this period, Turkle saw the computer as an evocative object that was provoking important conversations, and a mission statement she often used on grant applications conveys a direction she began to take form at this time: "I want to study how computers change not only what we do but who we are" (p. 274). In a larger sense, in terms of empathic reflections, the question of whether brilliant ideas give one the license to overlook common courtesies comes up more than once as Turkle reflects on her complicated relationship with Papert.

Overall, The Empathy Diaries gives a sense of how and where Turkle began to perceive that the view of people as rational animals was being revised to denote people as emotional machines. Because the book gives very little attention to her work after she received tenure in 1985, this reader felt that a key part of the story was missing: We are not given information that covers how her thinking/feeling conversation with human/machine relationships stretched into simulation and virtual reality. Perhaps a second book is in the works that will cover 1985 to the present? This book seems to close on the note that her tenure case had revolved around rule-based thinking that reduced her to an object so as to avoid considering her as a person. Yet we hardly get to see the person whom she became.

These years are covered in a short final chapter, which covers 1985 to 2020. It briefly notes that with the entry of the personal computer, she moved from mechanism to simulation and began to study how the computer offered the illusion of companionship without the demands of friendship. She also notes that she remarried soon after her divorce from Papert and had a child. A few paragraphs explain that once she became the mother of a preschool child (her daughter was born in 1991) she gained another perspective on computers. Of course, as inventions like Facebook became a part of the societal picture, Turkle's voice has been an important one as the social-media business model entered our consciousness and began to sell our privacy "in ways that fracture both our intricacy and our democracy" (p. 337). I wish she had said more about this period (and perhaps less about her early childhood).

In the epilogue Turkle sums up the book: Her sense of being a stranger allowed her to grow into a brave woman. Finding comfort in a life lived largely as a visitor taught her that solitude allows one to discover one's own company. As her academic work at MIT made her feel like a killjoy in the American love affair with technology, she found her own voice. She also found that writing the book was another kind of displacement, and one that allowed her to appreciate, among other things, her mother's complexity.

As noted above, I hope that this memoir is merely intended as Part I and Turkle will release a second book to cover the years after 1985 in more detail. As rich as the writing is, it offers only a rather narrow slice of her life. It is because her later work is more broadly connected with society at large that key elements of who she is remain opaque to the reader. I also kept debating whether her trials within the ivory tower of the Ivy League showed that our humanness is complicated in all situations or if this narrow framing somewhat mitigated the broader experience of humans within the larger society unconnected to the ivory tower. Because her later work is done in a broader environment, it seems more expansive as it looks at how technology is changing us culturally and as individuals. More succinctly, her writings focus on her interactions with people she was meeting online and in classrooms. Given this, it would be fascinating to see how she continued to refine her inner self in light of these experiences once she had established a place for herself academically.

As excellent as this book is, I do have minor quibbles with its presentation. Maybe the reason there is no index is because this book is presented as a memoir? Considering that she knew so many people at the forefront of the computer revolution, her academic trajectory has an added value, and these reflections will no doubt become a classic as interest in this early period grows. One hopes the publishers will add an index to the second edition. (While they’re at it, they can fix the notes, which do not currently point to the correct pages. At some point they become about two pages off, perhaps due to last-minute edits?)

Finally, The Empathy Diaries, although presented as a memoir, includes a wealth of critical insights. What is particularly thought provoking about this reflection is how well it captures the complications of pursuing an interdisciplinary life, and that reconciling ideas that are not easily interwoven takes passion and grit. The empathy component arises
as Turkle attempts to emotionally understand what other people feel. Her deftness in capturing her persona leads me to close by saying that I’ve always liked Turkle’s work to some degree but, as a process person, I have also struggled with her devotion to objects. She frequently expresses herself in terms of human subjects and objects, with particular objects holding a special place because she characterizes an evocative object as something that holds significant meaning to the person and not necessarily anyone else. It holds personal emotions, feelings or memories for that individual. She defines it by saying: “We think with the objects we love; we love the objects we think with” [2]. To be sure, while I’m still more inclined to the process by which we make objects we love, this book did succeed in giving me a fuller appreciation of her views and a deeper sense of how they arise.

References

LA CONVERSATION TRANSATLANTIQUE: LES ÉCHANGES FRANCO-AMÉRICAINS EN POÉSIE DEPUIS 1968


Reviewed by Jan Baetens.
https://doi.org/10.1162/leon_r_02129

Literary history is now again, after a long hegemony of theory-philosophy-affected methods, a thriving part of the study of literature. The rise of media studies, the lasting impact of the archival turn as well as the perhaps-surprising return of book history (very cool today!)—all exciting side effects of the digital revolution in art and society—are key factors in this success. Literary history is all the more exciting since its contemporary forms do not abandon or censor the great debates of the 1970s and 1980s, when French theory hit the world. Abigail Lang’s meticulous study of what she calls the “transatlantic conversation” between French and U.S. poets, and poetry texts and practices, since 1968 is a marvelous example of what literary history is not only representing but also doing today: It is an inspiring mix of textual and archival close reading, also containing a broad analysis of the thriving forces behind cultural change, an open eye on postnational and plurilingual communication and last but not least a sharp reflection on what is at stake, both aesthetically and politically, in poetry, that most daring and self-reflexive but also most fragile form of writing and living in our modern times.

That French poets would start looking at the United States in the 1960s was far from self-evident, even taking into account that there existed after World War II a very dynamic French cultural center within the center of intellectual Paris, which did much more than provide France and Europe with anticommunist propaganda. The obstacles were indeed multiple. First, there was the typical French and widespread disdain of all things American, certainly in the postwar period with the cultural hegemony of the French Communist Party. Second, there was still the even-stronger prejudice that the real center of literary prestige could only be Paris—and not New York, as had become the case in painting. Yet for the new generations of poets, this twofold a priori was suddenly cracking. On the one hand, young authors found the French literary scene, heavily marked by post-Surrealism, old-fashioned and asphyxiating, lacking all sense of risk and experiment, fossilized by an age-old tradition of snoopy literary language deprived of any relationship with everything that had enabled the emergence of new poetical forms and practices in America: namely new media, mass culture, ordinary language—in short, real life and things as they were. On the other hand, these young poets discovered in the American examples working models of how to bypass the limitations of institutionalized literature and thus get rid of the national French style in radical ways. It also worked the other way around, of course, but clearly not with the same sense of urgency: American poets felt at home with the newest forms of French writing, and the transatlantic conversation definitely comforted them in their own attempts to reshape their own traditions, but it would be exaggerated to claim (which Lang doesn’t do!) that they would have been incapable of pushing the boundaries of their own tradition without the help of the French.

Lang’s study approaches these poetic exchanges from three points of view. First, she studies the French reception of the American objectivists (Reznikov, Oppen, Zukofsky) and “language” poets (Bernstein, for instance), not only at the moment of their discovery by young writers of a subsequent generation but also through the various polemics and reappraisals since their progressive and sometimes partial and shattered appearance in the French poetic field. Lang clearly describes the channels that enabled this discovery (she rightly emphasizes the role of anthologies) and the role of the various go-betweens (each occupying different positions in the literary field). She also convincingly focuses on the motivations of the French authors and the internal strategies, tensions and conflicts disclosed by their interest in radical American writing. Not all American poets were read the same way by various authors and groups, and the lessons that were drawn from U.S. models could also largely diverge. Yet in spite of the differences and skirmishes between authors and groups, the overall picture was strikingly consistent: All young French poets were turning away from “literature” (that is, from all types of alienated, artificial and socially disconnected forms of writing) and trying to explore what they labeled “literalist” forms of writing, both highly formalist and dramati-
between writing and translation often
ing (via translations, the difference
specifically of collaborative writ-
new forms of collaboration—more
a new corpus of texts but also totally
interplay of these forces was not only
ism. What appeared thanks to the
longer synonymous with Bohemian-
for moving poets. Radicalism was no
porting travel and subsistence costs
funded institutional partners sup-
sively replacing with offset presses),
commercial enterprises were mas-
appropriation of old hand presses that
Xerox machines, but also the creative
tion devices, from tape recorders to
ratization of not only new reproduc-
tion devices, each of five chapters explores
the attempt to rethink the social and
political dimension of poetry in the
alienating context of standardized
“literary” writing and institutions.
Lang’s book, which I can only hope
to see in English translation as soon
as possible, is a vital contribution
to our knowledge of modern writ-
ing and the transnational dynamic
of today’s culture. It is exceptionally
well documented while escaping any
form of encyclopedic piling-up of
facts and figures. As shown by the
clear structure of the book, the author
succeeds in laying bare lines of force,
which radically reshape our thinking
of writing and literature. The mutual
emulation of visuality and oral-
ity, for instance, which at first sight
seem to contradict and exclude each
other, is thus powerfully unveiled.
Lang also manages to avoid useless
polemics: her presentation is sober
and moderate, the main purpose of
the book being to understand what,
what, when, how and why people
(for hers is a history of people, not
of concepts or abstract forces) were
doing what they were doing and to
understand the consequences of their
actions, including of course their
failures, for the larger literary and
cultural landscape. Power relations
were a daily reality, just as were per-
sonal ambitions and rivalries, but the
ambition of this book is clearly not
to hint at winners or losers—a major
difference in tone than much contem-
porary writing and criticism, often
characterized by extremely violent
and systematically scornful language.
Finally, this book is also, despite the
incredible wealth of documentary
evidence and historical information,
a real page-turner. It is written with-
out any jargon while proving capable
of summarizing extremely complex
theoretical debates and controversies
in simple and always very elegant
words. Yes, this is not only a work on
literary history, it is literary history
in the making—and, why not, also
literature itself.

BRUTAL AESTHETICS: DUBUFFET,
BATAILLE, JORN, PAOLOZZI,
OLDENBURG
by Hal Foster. Princeton University Press,
978-0691202600.

Reviewed by Stephen Petersen.
https://doi.org/10.1162/leon_r_02130

This book is full of contradictions,
paradoxes and ambiguous opposi-
tions, starting with its title, which
suggests at once the uncivilized and
the cultured, the destructive and the
creative. Originally a series of lec-
tures delivered in lofty circumstances
(the 2018 A.W. Mellon Lectures in
the Fine Arts given at the National
Gallery in Washington, D.C.), the
subject of these chapters is the act of
art making taken to its base level. The
broad question throughout concerns
what it means to be human, which
is to say to create, in dehumanizing,
destructive times. Following an intro-
duction, each of five chapters explores
the work of a single figure for whom

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Leonardo Reviews 587

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art offers a means of cultural survival, analyzing them in relation to one another and in light of a range of contemporary theorists.

Linking Foster’s chapters is Walter Benjamin’s concept of “positive barbarism,” articulated in 1933 in the lead-up to World War II and here applied to postwar art. In essence, “positive barbarism” is an artistic answer to the brutality of civilization; it is starting “from scratch” in the face of a malevolent modernism. In Benjamin’s analysis, modern technology unleashes destructive torrents but also opens up what Foster calls a “fantastic array of creative possibilities” characterized by “transformative imagination” (p. 4). This is exemplified nowhere more than in the early Mickey Mouse animations of Walt Disney, where human-animal creatures morph into things, things into creatures, sounds into music and back. Writes Foster, “each movie is a symphony of onomatopoeic barbarisms in which almost everything becomes an object or an instrument of magical transformation” (p. 4). This malleability bespeaks a dialectic of sign and substance where neither remains stable. Such creative instability corresponds with an era of destructive instability.

In Foster’s view, Benjamin’s positive barbarism, although conceived in response to the ravages of the first World War and the dire years that followed, did not fully apply until after “the mass deaths of World War II, the Holocaust, and the hydrogen bomb.” “Only then” he writes, quoting Benjamin’s earlier definition of positive barbarism, “were artists and writers truly forced ‘to start from scratch, to make a new start, to make a little go a long way’” (p. 4). Yet this new start is hardly a fresh one. As Foster notes, “To begin again is an oxymoron” (p. 5)—starting from scratch is also always starting over, literally reinscribing. The ground is never pure, and brute origins are, ironically, something artists return to as a sort of last resort. Each of the figures in Foster’s study “proposes a different version of brutal aesthetics, one that pares art down or reveals it to be already bare, so that they might begin again after the compound devastations of the time” (p. 6).

The five postwar figures represent a range of nationalities and artistic movements. What links them is their investigation of “a beyond or a before to official culture” (p. 6)—animal, outsider, marginal, illicit. Stylistically they tend toward disfigured and decomposed imagery, while methodically they manipulate brute materials and reclaim debased remnants of culture. Despite this focus on destruction as a motif and a strategy, Foster’s brutal aesthetics is not, he says, nihilistic. Rather, as Claes Oldenburg put it, the task of the artist is not only to annihilate but also to illuminate. The shared aim of the figures, working in the wake of devastation and atrocity, is “to de-reify the world and reanimate life” (p. 17).

Embracing the idea of the “anti-cultural” as an antidote to the ills of modern civilization, the French painter Jean Dubuffet looked to successive types of art brut—art of children, of the street, of those with mental illness—as resource and models for his own paintings starting in the 1940s. In both their crude imagery and brute materiality, Dubuffet’s figures and landscapes subverted aesthetic norms. Above all, for Foster, they achieved a kind of destabilization of form as well as meaning: “Neither literal nor metaphorical, neither figurative nor abstract, the brut is pledged to keep not only material and process but also value and meaning unfixed” (p. 58). Dubuffet’s paintings equivocate between figure and ground, vertical and horizontal, form and uniformed, cooked and raw, inside and outside of culture. For Foster these contradictions animate, as well as problematize, Dubuffet’s art.

In search of artistic origins as the end of human culture loomed, the French author and philosopher Georges Bataille turned to the newly discovered Lascaux caves, presumed to be the birthplace of art. Prehistoric images of wild animals and violent encounters cover the walls, suggesting a ritual function (known as a dissident Surrealist, Bataille employed both psychoanalytic and sociological methods). As Foster explains it, “Prehistoric art suggested to Bataille an origin that both repositions the role of the ritualistic in art and recovers the importance of the sacred in society, an origin story that, if reclaimed, might help postwar man to cope with his ‘passion for destruction’” (p. 75). At Lascaux the “birth of art,” conceived as the emergence of the human spirit, was notably focused not on humans but on animals—in other words, the moment of differentiation of human from animal is ironically a moment of identification of human with animal. This play of differentiation and de-differentiation characterizes brutal aesthetics broadly. In the case of Bataille, the symbolic threshold between human and animal is crossed in both directions, again and again, offering a source of perennial rejuvenation: “For Bataille all society was in need of barbarization, by which he meant a fundamental recovery of sacred experience” (p. 21).

For the Danish artist Asger Jorn as well, the animal loomed as both image and force. As part of the northern European Cobra movement, Jorn saw “irrational spontaneity” as a way to “get closer to the vital source of life” (p. 105). His paintings feature fantastic creatures that combine animal and human attributes, crudely rendered in a fierce expressionist style. Not only a celebration of the primal energy of nature, Foster notes, “this creatureliness . . . also attests to the denaturing caused by the world war, the Holocaust, and the Bomb”
Enburg launched his career in 1956, declaring, “I like beaten, battered things” (p. 196). For Oldenburg, that which is damaged is also ripe for reimagining. His first major work, the funky installation titled The Street (1960), took both its material—corrugated cardboard—and its subject—everyday urban reality—from the rundown Bowery district. Formally it offered crude, cartoon-like renderings of figures and, especially, objects, a strategy Oldenburg follows through his famous Store (1961–1962) and into his soft sculptures. Echoing Dubuffet, Oldenburg cited his preference for “Present-day primitives: children, madmen, the American culture-less” (p. 196). The mundane stuff of urban life becomes, in his hands, reanimated. Oldenburg adopted the open-ended symbol of the Ray Gun to epitomize his process whereby objects come to life and, as Foster sees it, become ambiguously thing and being at the same time. In his soft sculptures of ordinary objects, “Oldenburg used softening not only to deform things but also to de-define them” (p. 237). This de-definition opens the door to the possibility of endless transformation. The Ray Gun, in Oldenburg’s formulation, is “both destructive and creative” (p. 240).

If the principal target of positive barbarism in the postwar era was initially mass destruction, with Oldenburg it becomes the perhaps more insidious barbarity of consumer culture. Brutal Aesthetics is bookended by references to Mickey Mouse. The first, from Benjamin in the 1930s, spoke to the playful transgression and imaginative metamorphosis that Mickey Mouse cartoons offered in a time of looming disaster. The second, Oldenburg’s “geometric mouse” from the late 1960s and early 1970s, represents a different cultural message, keyed to the postmodern era of multinational capitalism. Rather than promising transformation, Oldenburg’s schematic Mickey now epitomized corporate branding. “No longer a quixotic knight errant against the dark forces of capitalism, Mickey was now its mascot,” writes Foster, concluding that “the historical conditions that prompted positive barbarism had changed” and that “brutal aesthetics was no match for the society of the spectacle” (p. 247). And yet, Brutal Aesthetics seems rather timely. In both its realism and its spirit of resistance in the face of destruction, disaster and dehumanization, positive barbarism as an artistic strategy may hold relevance still.