

Editorial

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Welcome to this issue of *Integral Review (IR)*! We are pleased to welcome you to a new regular issue, which brings together a number of interesting articles, essays and reviews.

It has been a while since our last regular issue in January of 2016. While we are pleased to be able to publish a range of special issues over time, we are always excited when we are able to pull together a new regular issue. These issues are a long journey, through many different kinds of processes for the authors, reviewers and editors involved. Despite these differences, all of the contributions in this issue can be perceived as forms of advancing our understanding of an integral view of the world and our participation in it.

If I was to look for a theme in this collection of articles, essays and reviews, I would say that it has to do with understanding consciousness and how it shapes our existence and experience in this world. 40 years ago I began my university education studying physics, but dropped out and later turned to studying consciousness (and leadership). Along the way I have encountered numerous perspectives on the relationship between the two subjects, with a polarity in perspectives, from materialist interpretations to idealist ones. This conversation continues today, being taken more and more seriously as it becomes apparent that we cannot ignore an integral view of the intimately intertwined nature of consciousness and matter. The science magazine *Nature* recently highlighted this as an ongoing conundrum (see article here). An example of an integrative perspective comes in the notion of panpsychism, that consciousness is a fundamental feature of physical matter, which is being taken seriously by a wider range of mainstream physicists and others (see article here). All of this leads into the territory *IR* has always been intended to serve as a platform for new thinking from an integral view.

Thus we fittingly begin this issue with Doug Marman's *The Lenses of Perception Interpretation of Quantum Mechanics*. At *IR*, we are always on the lookout for new thought and Marman delivers on this. His article is a substantive piece of investigation into some of the most fundamental questions science has ever tried to answer. In true transdisciplinary fashion, Marman covers a wide range of disciplinary knowledge. He begins by showing similarities between quanta and living organisms, leading to an inescapable predication that quantum behaviour is driven by sentience. This leads naturally into a detailed examination of consciousness itself and how participation is a creative process of perception. (This is something that will also show up in Bonnitta Roy's article). Marman then lays out a set of nine postulates that lay a more formal foundation to show how his Lenses of Perception interpretation can address a wide ranging and essential set of issues generally held as necessary for any theory to be able to bring coherence to our understanding of all physical

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processes. Having done this, an examination of quantum formalism and how the LoP interpretation (using first, second and third person lenses) not only meets the tests of quantum formalism, but even shows why the second person lens of relationship is necessary for understanding it. Finally, Marman lays out how his LoP interpretation meets a variety of challenges, including the five unsolved problems of physics, and points to ways to test out this interpretation. The overall scope, depth, breadth and rigor of Marman's work makes this article a seminal contribution to discourse around these fundamental questions, and IR is pleased to publish it here.

We follow this by diving into the application of how consciousness shapes organizational and leadership culture, and what can be done to support its healthy evolution. John McGuire and Charles Palus, both senior fellows, long time faculty and researchers at the Center for Creative Leadership, bring us an article on *Vertical Transformation of Leadership Culture*. They tackle one of the most challenging topics in leadership and organizational theory, that of culture. They approach it by linking their work in development theory with the DAC framework (direction, alignment, commitment), a relational ontology and process model of leadership. This link enables them to clearly describe and indicate how to work with leadership culture in a manner that enables transformation. This work has led to the creation of tools that are elegantly simple to use, yet naturally stimulate the kind of reflection that promotes growth (speaking from the experience of not only using some of these tools, but seeing others use them successfully with no knowledge of the background developmental theory).

This is followed by *Creating Responsive Learning Environments to Develop Students' Reflective Capacity* from Patric Wallin, myself (Jonathan Reams), Sven Veine and Martha Kalvig Andersen. This article describes aspects of the theoretical foundation for and a description of some exploratory research on applying a computer aided developmental assessment (Lectica's CLAS) to creating a responsive learning environment. The theory behind this work focuses on how to support students in the move to self-authoring their learning processes. They explore how using formative assessments based on models of cognitive development can generate learning environments that can be responsive to students' natural learning and growth. The focus of application is on a large scale university course in Norway where students need to build reflective judgment skills and apply them to teamwork. While the research is in the early phases, it is an interesting application of developmental thinking to attempts to produce scalable classroom tools for supporting the development of the key skill of reflective judgment.

Rounding out our peer reviewed section is Zakary Stein's *Love in a Time Between Worlds: On the Metamodern "Return" to a Metaphysics of Eros*. This theme of deep explorations of an integral view finds its expression here in Stein's focus on a metaphysics of eros as the eternal struggle in this world between forces of love and death. To enable an adequate metaphysics in today's postmodern climate, Stein first lays a foundation for how we can practice metaphysics today, delving deeply into post Kantian thinking and taking up this thread after Darwin through Pierce into what he highlights as a "guerilla ontology." This is a highly educational journey that helps contextualize an array of key threads of thought at the heart of the second part of this article. There, Stein goes into how all of this applies to an understanding of eros as the heart of love and sex, reality and politics. I found it as a kind of meta-thread when Stein shows how errors in thought and ethics are traced back to the prioriness of emotions and failures in relationships, linking back to Marman's understanding of relationships being at the heart of not only biology, but even

quantum physics. The end of Stein's article focuses on how Gafni's *A Return to Eros* addresses these and other issues that help us get out of the postmodern swamp and back to a solid foundation in a reality where love can be prioritized and realized.

Our editorially reviewed section begins with Bonnitta Roy's presentation of her master thesis in consciousness, *Awakened Perception: Perception as Participation*. Regular readers of IR will have seen a number of articles from Roy over the years that show the breadth and depth of her thinking as well as its evolution. In this piece, we are treated to an inside look at the path of exploration she has recently engaged in. This covers research on perception itself, neurodynamics as the gates of perception, the role of the brain and senses in perception and the imagination, all leading to a conception of awakened perception, which is then examined in relation to Buddhist thought on the subject. As well, for those who are following and or applying her work on Open Participatory Organizations, this piece will provide insights into the foundations of the innovative applications she has been using to help people organize in ways that encourage natural organization around maximum participation.

I had the good fortune to be in London last May for the 2018 European Society for Research in Adult Development (ESRAD) conference. For me, and a number of others, one of the highlights was Thomas Jordan's hour long session where he presented the set of propositions laid out in *Late Stages of Adult Development: One Linear Sequence or Several Parallel Branches?* The quality and energy of the conversation that arose from considering these propositions made it clear that the questions Jordan raises are ripe for exploration among a growing community of researchers adequately prepared to begin addressing the questions Jordan lays out. In his article he lays out key concepts related to the different lines of research and theories he addresses and then lays out six propositions for us to consider, followed by five examples of profiles of people with different profiles combining various aspects of late stage development. The conclusion is an invitation to engage more robust sets of analytical constructs in our attempts to understand these phenomenon.

Susanne Cook-Greuter has graciously provided us with her keynote talk at the 2018 Integral European Conference, *The Construct-Aware Stage of Ego Development and its Relationship to the Fool Archetype*. In her warm and engaging style, she engages in Foo-ling as a means to illustrate the means by which construct awareness can be realized. She describes the role of language in shaping culture and consciousness, gives a brief overview of ego development theory and then examines the characteristics of fools and the fool archetype. This allows Cook-Greuter to make a list of shared characteristics which shows that wisdom and foolishness, leading to an admonition to not take ourselves too seriously and to laugh more!

For our next item, I have continued my interest in providing extended overviews of books that I believe to be of interest and relevance for our community of readers. In *The Nordic Secret: What can we Learn?* I present a chapter by chapter overview of the book *The Nordic Secret: A European Story of Beauty and Freedom*, which traces key influences on what the authors, Lene Andersen and Thomas Björkman consider as the foundation of Nordic success. Essentially, this involves an engaging narrative through the German Enlightenment and how the central ideas of the time articulate the perennial philosophy and closely match current notions of ego development. These ideas then shaped efforts at a people's education in Scandinavia and laid a foundation for a robust

participatory democracy. How this could be adapted for today's societal challenges is also addressed. The book is a wonderful application of integral thought to historical and current society.

Finally, Matthew Rich-Tolsma presents a review of Jennifer Gidley's *Postformal Education: A Philosophy for Complex Futures*. He offers a penetrating examination of both the context and content of Gidley's work, outlining the four core pedagogies; love, life, wisdom and voice. Rich-Tolsma captures the essence of Gidley's work while also pointing to how choices made in the approach can also present limitations to the impact of the work.

With this, we hope that you enjoy the diverse feast laid out in this issue of *Integral Review*!