One of the great joys of being an academic is that you get to play in the world of ideas and words. It is like being invited to get into your favourite sandpit every day and fool around and see what happens. One of the problems with this, however, is that sometimes people ask you to explain the curious sandcastle you built or that odd looking shape in the corner. As those of you who have a psychological interest might know, the psychoanalytically minded in the profession make a lot of what we do in sand pits and the things we create. They are a very symbolically minded lot. We mention this because what follows is very much a child of our bias, world view, experience and, perhaps, deep unconscious. Chris is an educator, researcher and consultant known for his work in education and culture through his book, ‘More than G’day’. Stewart is, variously, an academic, consultant, trainer, psychologist, and psychotherapist.

Both of us had been interested for a while in complex adaptive systems and had played a lot with the systems thinking of Bertanaflly (1950), Ackoff and Emery (1972), Fred Emery (1971–1986), and Emery and Trist (1965), for example. For the most part they conceptualised the differential nature of environments and how systems and environment could influence each other. Bertanaflly, in particular, challenged the notion that systems are always seeking equilibrium and do in fact adapt to external change. Complexity Theory
Heutagogy

seemed to us to be a natural progression to this theoretical development, in tune with the functioning of the modern world. More importantly, given our interest in learning, a number of complexity theorists had already pointed out its implications for learning (e.g., Davis and Sumara 1997; Doll 1989; Doolittle 2000). The notions of change or learning and bifurcation as being natural phenomena that result from stress on the system was particularly appealing. As educators, and me as a psychologist and psychotherapist, it had become obvious to us (and many constructivists around the globe I am sure) that people only change in response to a very clear need. This usually involves distress such as confusion, dissonance, and fear or a more positive motive such as intense desire. The satiated and the comfortable are less likely to make a behavioural change no matter what others may desire and we’ll come back to this later in relation to teacher-centred approaches to learning.

We also like to make the distinction between knowledge and skill acquisition and learning. We see these as quite different processes. Knowledge and skills or competencies can be acquired and even reproduced. But this is not learning at a deeper cognitive level. Learning is an integrative experience where a change in behaviour, knowledge, or understanding is incorporated into the person’s existing repertoire of behaviour and schema (values, attitudes and beliefs). For example, it is possible to acquire a set of competencies that one can repeat in familiar or known circumstances. However, if learning has taken place, competencies can also be repeated and even adapted in unfamiliar, unanticipated situations.

Against this background it appeared to us that there were some deficiencies with the existing notions of pedagogy and andragogy. While Malcolm Knowles (1970) contributed greatly to our understanding of the limitations of pedagogy when it came to adult learning by defining andragogy, we thought that andragogy did not go far enough. Any examination of learning experiences and curricula designed around andragogical principles certainly demonstrated the capacity for linking into the adult experience and recognised the advantages of self-directed learning. However, curricula were still very much teacher-centric with little opportunity for any real involvement at a micro or even macro level by the learner.

So, over a bottle of a nice crisp white wine one cold Canberra evening, Chris and I described the notion of self-determined learning that best described an extension to pedagogy and andragogy. Chris eventually came up with the term heutagogy, which is derived from the ancient Greek for ‘self’ with some adjustments and the ‘agogy’ added. Heutagogy is concerned with learner-centred learning that sees the learner as the major agent in their own learning, which occurs as a result of personal experiences. The teacher might think that he or she can control the learning experience but
we think the teacher’s role is limited to the transfer of knowledge and skills. As well as being an agent in their own learning, it is impossible to predict the extent and effect of bifurcation. Hence, the curriculum and learning activities may become increasingly irrelevant at any point in the so called ‘learning process’.

Since the initial paper there has been a growing interest in the concept that has resulted in some research and a number of theoretical papers looking at how heutagogy might be further conceptualised and, more importantly, applied in learning experiences. We’d like to quickly review where the journey has gone thus far.

As noted above, we contextualised heutagogy with reference to complexity theory (Hase and Kenyon 2000; Hase 2002). It thus seemed a natural progression for us to examine a potential link between heutagogy and action research (and necessarily to action learning but we’ll refer here just to action research). Stimulated by her doctoral studies Renata Phelps and I (Phelps and Hase 2002) wrote a paper describing what was for us a natural connection between action research and complexity theory. It seemed to us that action research provides the flexibility of being able to try and understand unpredictable and complex social phenomena. In addition both complexity theory and action research emphasise the emergent nature of learning. We’ll leave you to read the paper if you’d like to see the connections.

It was then a simple step to start thinking about how action research (and action learning) might fall under the ways in which self-determined learning might take place (Hase 2004; Tay and Hase 2004). Action research allows experimentation with real world experience where learning is in the hands of the participants. This learning can then be tested in subsequent learning cycles. This is as close to real world learning as one can get in a controlled setting where there is a legitimate observer who is also a participant and learner all at the same time. In fact we have been able to document how doctoral students undertaking action research theses have progressed from pedagogical, then andragogical to heutagogical learning in the course of their research (Hase, Tay and Goh 2006; Sankaran, Hase, Dick and Davies 2007). This has been one of the few research projects conducted to investigate the relevance of heutagogy in understanding the learning experience.

Another way in which heutagogy and complexity theory have been connected conceptually is through the idea of capability (Phelps and Hase 2002; Phelps, Hase and Ellis 2005; Kenyon and Hase 2001; Hase and Kenyon 2003; Hase and Tay 2004; Hase 2002;). Capability is a holistic attribute and concerns the capacity to use one’s competence in novel situations rather than just the familiar, a justified level of self-efficacy for dealing with novel problems, having appropriate values, being able to work in teams, and knowing how to learn (Hase 2002; Stephenson 1994). It is posited that capable people are more likely
to be able to manage the world envisaged by complexity theory. In support of this contention, a recent study has demonstrated how dimensions of capability delimited the practice of advanced nursing practitioners in complex health situations (Gardner, Hase, Gardner, Dunn and Carryer 2007).

We have also been particularly interested in how heutagogical approaches might in fact develop capability among people in workplaces (Hase and Kenyon 2003; Hase and Davis 1999; Kenyon and Hase 2001). The competency movement has dominated much of the vocational education and training agenda in Australia and other countries such as New Zealand and the UK. While competencies (knowledge and skills) are obviously essential for effective functioning in workplaces they are concerned with prior ability in known contexts. Capability, however, is concerned with unknown contexts that extend beyond competence. Modern workplaces are complex adaptive systems that provide continuous and rapidly changing contexts. Our research and thinking has concerned how the self-determined learning that occurs in the normal course of work leads to capability can be understood and harnessed. In response to this Wilmott and Barry (2002) found in a review of vocational education and training that there has been a shift in the sector from pedagogical to heutagogical approaches to learning.

It is not surprising that this same thinking in relation to heutagogy has been applied to the developing world of online and e-learning (Albon 2006; Ivan 2006; Keogh 2005) and the transformation of learning in the online environment (Idrus and McComas). It is also encouraging to see that Heutagogy has also been referred to in a number of other contexts examining learning such as: early childhood teaching (Ashton and Newman 2006); problem based learning in the health sector (Kavanagh and Nicol 2007); technology education (Eberle and Childress 2007; ethics (Simms 2003); and credentialing (Olliges and Mahfood 2004).

Thus far there appears, potentially to be a number of ways in which heutagological thinking might be applied to designing learning processes:

- Recognition of the emergent nature of learning and hence the need for a ‘living’ curriculum that is flexible and open to change as the learner learns;
- Related to this is the involvement of the learner in this ‘living’ curriculum as the key driver.
- Recognising that knowledge and skill acquisition, and learning are separate processes and need different approaches;
- Identification of learning activities/processes by the learner not just the teacher.
- Using action research and action learning as meta-methodologies in the learning experience.
Involvement of the learner in the design of assessment, self-diagnosis and application of knowledge in real life contexts.

Collaborative learning;

Coaching for individual learning needs and application.

There are two main agendas in our current work with heutagogy. The first of these is to investigate through a focused research program whether or not heutagogy is a useful concept. Some initial research is mentioned above but there is more to do yet. It is surprising to see heutagogy spring up in so many places such as curricula documents and theory papers despite only a modicum of good research evidence to support it. Mind you, this should not discourage thinking at a theoretical level. The second agenda, which may be related to the first, is to understand further how learning takes place in complex adaptive systems and then how to harness and facilitate these processes.

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**Chris Kenyon** has many years experience as a senior consultant and educator. He has been director of two consulting organisations, and has worked with private companies and government departments in Australia, New Zealand, Zambia, Saudi Arabia, USA, Thailand and Malaysia. His book on cross-cultural communication was a recommended text in many university courses, and for six years he ran the “Strategies for Success” seminars designed to enhance the performance of senior executives. He was director of an MBA level program for ten years, and is still a guest presenter on a number of postgraduate courses. With Dr Stewart Hase in 2000, he introduced Heutagogy as a new approach to learning.

**Stewart Hase** is an academic, psychologist and psychotherapist, educator and consultant. Until the end of 2007 he is employed at Southern Cross University in the Graduate College of Management, in Northern NSW, Australia, where he has been for 19 years. At the end of the year he is going into semi-retirement and will pursue other interests as well as consulting should he be able to find anyone to drag him away from golf, fishing, surfing, walking, reading and writing. It’s tough but someone has to do it!. [e-mail: stewart.hase@scu.edu.au]