The introduction of a double-layered Community of Practice model: A new conceptualisation of online learning

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The authenticity is a required condition for learning. However, the design of an authentic online learning environment, which is ultimately separate from learners’ real-life environments, is inevitably challenging. This presentation will propose an alternative way of conceptualising online learning and its boundaries, based on a double-layered Community of Practice model as a means to facilitate constructivist online learning. The model conceptualises online learning as interlinked processes of participation and socialisation in multiple communities across online- and offline-“layers” of learners’ everyday lives. The model guides online course designers in expanding the perceived boundaries of the course environments they design to include learners’ offline learning contexts and local living conditions. Instead of having an exclusive focus on providing learners with constructivist learning opportunities within a non-authentic course environment, the model suggests helping learners to engage in more personalised social learning activities situated in their everyday lives. The presentation will draw on a large set of qualitative data collected from a series of case studies that have examined adult students’ distance learning experiences in different kinds of online courses. In doing so, the presentation will effectively demonstrate how difficult it is to develop a strong CoP nested and sustained within online learning environments, which usually have a close finish. The author will further argue that it may be useful for instructional designers to expend their view on learning environment to include distance learners’ life situations beyond their computer screens. Everyone has their own community in which they naturally learn, develop, and live with other members outside the courses. Thus, rather than putting so much effort to form a community inside online learning environment, we may want to think about more effectively support students to form a stronger and more sustainable community in their lives through being engaged in learning activities in our course.

Keywords: Online distance learning, authentic learning, Community of Practice
Introduction

Under a prominent recent regime of online education, often represented in the scholarship as a “social constructive learning paradigm” (Anderson & Dron, 2011; Harasim, 2012), learning is defined as a social practice that involves a group of students actively participating in collaborative knowledge construction processes (Scardamalia & Bereiter, 1994; Stahl, Koschmann, & Suthers, 2006). Pedagogical theories and strategies developed and utilised in that regime focus extensively on enabling student-to-student interaction and building communities of learners in online learning environments (Garrison & Arbaugh, 2007; Weller, 2007). However, as I demonstrate elsewhere (Lee, 2018), it is not at all difficult to notice a gap between the accepted theoretical ideas of effective online learning and actual pedagogical practices in most online education institutions, including many open universities.

Here, I aim to reduce that theory-practice gap by reconceptualising online learning using a double-layered Community of Practice (CoP) model. That model was originally developed through incorporating CoP principles into an online teacher education course design in order to address a teacher learning-teaching divide (Lee & Brett, 2013; 2015a). That module conceptualises teachers’ online learning as interlinked processes of participation and socialisation in multiple communities across internal and external or online and offline “layers” of teachers’ lives. During a course period, participant teachers interact with other members at least in two different communities, the first community is internal, being newly built by their participation within the course environment and the second one is external, usually pre-existing outside the course environment in each teacher’s professional context. The fact that teachers are active members of school communities is not something new or surprising. However, from the perspectives of course designers or instructors, it can be challenging to expand the boundaries of their course environments or designs to reach out to teachers’ personal and professional lives and to make sense of teachers’ learning experiences that are shaped by their interactions with other members of different communities outside the course environments. Thus, the model proposes pedagogical strategies to support participant teachers’ simultaneous presence across internal and external communities and provides a holistic view on teacher learning situated in multiple communities.

In the next section, I will present a brief discussion about the concept of CoP and difficulties with developing a sustainable CoP online – much of this discussion is contextualised in the topic of teacher education. I will then present some data from a series of case studies on students learning experiences in different kinds of online courses that illustrates central ideas in this article.

Communities of Practice

The concept of CoP is fundamentally based on situated learning theories that describe learning through active participation in shared practices of social communities (Lave & Wenger, 1991). Their original anthropological monograph did not provide a clear definition of CoP but rather focused on describing how newcomers are socialised in existing communities through a process of ‘legitimate peripheral participation’. This new approach to understanding professional learning was further developed through Wenger’s later work (1998). His basic argument in this second book was that CoPs consist of groups of people who share a common interest and a

desire to participate in and contribute to the practices of their communities and that all individuals are involved in multiple CoPs at work, school or even at home. All CoPs have a shared domain of knowledge, which creates common ground, inspires members to participate and guides their learning (Wenger, McDermott, and Snyder, 2002). In pursuing their interest in the domain, members engage in joint activities and interactions to share ideas, and build relationships that enable them to learn from each other. In this sense, CoP is distinguished from communities of interest or communities of learning that do not require the ‘practice’ element.

**Previous studies: developing a sustainable online teacher CoP**

With a shared understanding that building a quality CoP is a complex task, there have been various studies to investigate the design principles effective for online teacher communities (Lee, 2013, 2015a; Liu, 2012; Lloyd & Cochrane, 2006; Wood, 2007). Even though theoretically, teacher CoPs are often understood to be ‘open and voluntary gatherings of individuals concerned with the general practice of teaching or specialist disciplines or areas of interest’ (Lloyd & Duncan-Howell, 2010, p. 61), building a quality CoP can be highly demanding for teachers who are already busy with their heavy teaching load and different responsibilities (Chai & Merry, 2014). In particular, if the development of an online teacher CoP is aiming at the advancement of teachers’ technological knowledge and the educational use of technologies, which require the transformation of their pedagogical beliefs (Lee & Brett, 2015b; Schibeci et al., 2008), one would hardly expect such a CoP to be naturally and voluntarily formed by teachers. Therefore, careful and deliberate design efforts may be required for developing a CoP supportive enough for teachers’ transformative learning.

One of the first large-scale research projects to build an online teacher education environment incorporating CoP principles was *TAPPED IN* (see Farooq et al, 2007; Schlager, Fusco, & Schank, 2002; Schlager & Fusco, 2004). The project focused on developing an environment that enables i) teachers to participate in self-motivated development activities from their professional contexts, ii) educational organizations to cooperate with each other and develop larger CoPs, and iii) education agencies to organize and host online CoP activities including online seminars or courses. Much effort was made to sustain and maintain teachers’ and educational organizations’ active participation in their CoPs built in the environment. Although it was a successful project that produced a great deal of knowledge, the research team announced its closing in March, 2013 due to a shortage of research funding and a lack of continuing participation.

There are also a few studies focusing on developing teacher communities nesting inside online teacher education courses. For example, Slaouti (2007) attempts to build a CoP in the course environment through facilitating teachers’ interactive learning and reflective teaching and Hramiak (2010) has a similar emphasis on developing a course CoP into which teachers can bring their teaching practices and share those with their peers. However both studies were unable to provide useful strategies to sustain the CoPs after the course period. Tsai’s (2011) study exclusively focuses on how to sustain inservice teachers’ participation in online CoPs, built through their preservice teacher education courses. Tsai suggests computer-mediated communication tools facilitate teachers’ ongoing discussions and online CoPs have great potential to connect teachers’ formal educational experiences and their teaching practices. Nevertheless, participant teachers’ participation tends to be mainly shaped by course activities and requirements so the sustainability of the CoP becomes questionable.
Case studies: learners’ experiences in different online courses

This section is written based on narratives of three distance learners and each from a different online programme. The three learners are purposely selected from three different case studies conducted by the author in order to effectively demonstrate the usefulness of the double-layered CoP model not only to improve online learning experiences but also better conceptualise online learning.

i) The first learner, Sumi is a recent graduate from online management programme at an open university. 10 adult students who successfully completed an online programme at an open university (including Sumi) were interviewed towards the end of their study. Those online courses they completed did not offer any structured collaborative learning opportunities although each course environment has a built-in discussion forum space in which some discussion topics and resources were listed. Contribution to the discussions was not carefully facilitated and so unsurprisingly, an average rate of online discussion participation was very low across those courses. The interview results suggest that all of those 10 students, at the beginning of their study, experienced an enormous struggle to understand what to do in such a new “online” learning environment where they had never been in before entering the open university. Sumi said “my first semester was a real struggle with a massive level of uncertainty and anxiety – so I had to take time off from my study and many of us in my cohort did anyway.” Fortunately, she was able to return to her programme after a couple of years and pursued her study to the completion at the second time: she recalled “the second time was so much easier because I learnt from the previous failure.” Through various processes of “trial and error” in their first year, those students established certain lifestyles to balance their work, family, and study responsibilities.

In Sumi’s case, she set her study pattern of waking up in the early morning and watching an online lecture and writing a learning note to which she would revisit during exam periods for about an hour every day. Once she successfully set up the habit and completed the second semester, her study pattern remained the same throughout the next five years of her study. For her and many other students in the first case study, online discussions or any other social interactions within the programme became considered “distractions” that may disturb their properly set-up study pattern. Sumi said:

There is enough knowledge in textbooks and I can read them alone. Listening to professors’ explanations based on good examples in those online lectures help me better understand knowledge – once I understand some challenging concepts through repeating the process, then it is really fun to learn... Of course, if I cannot understand something, then I can ask a question on the course website and I know some of my classmates or tutors may answer – but, it is not really necessary. I can just google it and search for other materials online – then there are tons of good quality materials developed by experts anyway. This is quicker.

Just like that, as an independent learner, Sumi earned her university degree and started her graduate study in the following year. She repeatedly emphasised how much she likes to learn new knowledge and to use them in her professional context where she was an educational programme coordinator and where she met close colleagues who were also doing a degree at the open university. However, this should be noted here: although social interactions she had had in
those “formal” learning environments seem extremely limited, she had established a strong community working, learning, and living together outside her programme. Each of her “friends” in the “study group” was in different online programmes but in the same work place and they had provided each other with endless emotional and social support. Sometimes, Sumi found listening to what they studied was helpful for her to understand her things clearer. She continued: “in reality, open university degrees tend to be recognised as something inferior to the ones of traditional universities, however, the best value of being an open university student is to learn how to be an independent and self-regulated learner. I am very proud of myself now and my degree from open university.” She believes being able to learn in totally “her way” enabled her to complete this challenging learning process while working and raising her child.

ii) The second learner, Oliver is a recent graduate from online doctoral programme in educational research. Oliver is an educational developer planning and organising faculty development programmes in one university in UK. When being interviewed, he had just finished his thesis viva. The online doctoral programme in which he was trained to be an educational researcher is offered by a research-intensive university in UK and it is, in its essence, collaborative and community-oriented. The programme consists of two academic phases: in the first phase (Part one), approximately 25 doctoral students as a cohort (all inservice educational professionals) enter the programme at the same time and take six courses together for the first two years. All of the six courses are very carefully designed to increase a strong sense of social presence among participant students and tutors and to build a supportive learning community among the cohort. This social learning process is effectively facilitated by a range of collaborative activities (e.g., group discussions, group presentations, peer-reviews) and two annual residential meetings during which all cohort members come to the university and participate in face-to-face group learning activities. Then they move to the second phase (Part two), in which each student as an independent researcher works on their thesis project with some guidance from their supervisors for the next two or three years. In this case study, 22 doctoral students who were close to the completion of their thesis project from four doctoral programmes of the similar nature were interviewed to understand their learning experiences in the two different phases. Oliver describes his experiences in Part one as:

[T]he sense of community aspect was great. I think we all benefited from learning as a group and we had a lot of conversations around the value of learning together in a group, because it really helped to keep you focused, keep you engaged. So that was a real bonus, and let’s be honest, that’s one of the key aspects of what I was looking for in a doctoral programme... we had the residential in the first year and after the residential I think we all really bonded as a group, and that was a really pivotal moment, going through module one. But then my subsequent modules were... you would go into the next module and you kind of knew who everyone was so you could just get straight on with answering the discussions and the content and that kind of thing... I started to feel more confident with what I was dealing and was making more informed decisions.

It can be argued that during Part one, Oliver and his cohort had effectively formed a learning community in which they could learn together and “get through” this challenging path of doing a doctoral study as part-timers. Similar to Sumi in some sense, Oliver also suggests that he established or became used to the particular way of learning (very different one from Sumi’s
through) in the programme, which made him feel more confident in the subsequent courses in Part one. However, Oliver’s experiences in Part two seem quite different:

It’s definitely a very different experience I think… because our group really enjoyed both residential, we organised a residential earlier on in the third year. So during the transition to part two, about six of us went to [the university], some of us are from overseas. We sort of self-organised a little programme … Because we felt that we really wanted to maintain that sense of community and it was actually really important to us. So we tried to extend it as long as we could, and then we all went off after the residential… the community aspect just sort of dissipated really… As soon as you get into Part two, it’s really difficult to maintain those community ties. We’d set up a little sort of learning group… A lot of people had used Facebook in the past and we tried to keep it going and it just died really as everyone gets immersed in their Part two… we had a really strong sense of community in part one but we couldn’t find a way.

The stressed usefulness of residentials for increasing a sense of community in Oliver’s excerpt also suggests, conversely, the challenging nature of having that sense of community without having those face-to-face interactions, which may be too costly for some students to voluntarily carry on. In addition, Oliver found it very challenging to maintain the frequent contacts with his cohort members during Part two – the cohort community, which had been carefully built throughout the Part one with lots of pedagogical efforts of tutors, students, and programme administrators, was just dismantled as soon as there was no “imposed” shared practices or collaborative activities in Part two. More importantly, it is not that Oliver and other students do not need that community support anymore. A sense of the absent of community and support system, which had existed before, was certainly not helpful to smooth out the challenging process of becoming an independent researcher who is expected to manage a large scale thesis project independently or alone.

iii) The third learner, Jane, has earned her Master’s degree in education from a traditional research-extensive university offering a great number of online courses. Jane was a MA student and a secondary teacher teaching ESL in a private school to immigrant girls when the third case study was conducted in three graduate courses designed using the double-layered CoP (see Lee & Brett, 2015a for a detailed description of the study). The online course, in which Jane was one of the 17 student-teacher participants, is different from those courses in the online doctoral programme described above in terms of the nature of the participation and participants. The notion of cohort is not salient in the Master’s programme to which hundreds of students are admitted each year and there are a large number of courses offered that each student can freely navigate and choose from. Thus, those 17 participants all voluntarily selected and signed up for this online course for the specific term. Although some of them had previously met in other courses, it is fair to say that most of them did not know each other at all when the course started. The course is fully online and only 12-weeks long, after which all participants would be dispersed into other courses: that is, the course does not provide optimal conditions for forming a strong learning community within the course. The course instead provides guided activities for student-teachers to search for an existing community in their professional context that they are already a member of and nurture that community to become a good CoP meeting the three structural characteristics of CoP: domain, community, and practice.
The course description explicitly states “bring your external CoP stories into your online course CoP and bring your course knowledge back to your external CoP” and specifically asks each participant to write CoP journal entries during the course period reflecting on their experiences with nurturing the chosen community and connecting course ideas to the practices in the community. This is to encourage each student to take the lead in building a supportive learning community in their own professional context, which will certainly last longer than the course environment. The main subject areas of the course discussions are the various characteristics of computer-mediated communication (CMC) and its educational applications and pedagogical considerations for using CMC tools in classrooms. During the course period, Jane continued to speak of her colleagues who could be her external CoP members as an inspiring group of teachers and expressed her desire to develop this group into a good CoP. Then, Jane initiated a series of afterschool conversations aiming to exchange useful teaching ideas and tips with her colleagues as the first step to nurture the pre-existing collegial relationships into a CoP with shared purposes and projects. In her final CoP journal entry, she says:

So, now that my [course] journey is ending, it has provided a perfect starting point to re-pay the [external] CoP I began to speak about in this course – the faculty I work very closely with at my school… I enjoyed the rich conversations, inspirational ideas and stimulating environment [in the afterschool conversations]. I like that belonging to CoPs. This [course] has inspired me to embrace more technology in my classroom… Now it is my turn to take on more of a leadership role within my faculty and bring some of the ideas we have discussed (and that I have tried in my classes) to them in a way that inspires them to join me on the journey to masterful teaching!

When I followed up with the course participants several months after the course was completed to ask whether they are continuing with participating in their professional CoPs. Several teachers responded yes they were including Jane. She said:

Definitely, I have been participating in my CoP at school (after school) and continue to do so because I find it extremely helpful to collaborate with other members on certain tasks. The question we continue to address is how we can incorporate technology effectively into our classes… I love being part of my CoP and I think everyone should participate in one, especially if they are educators.

**Conclusion**

Petraglia (1998) earlier argued that educational technologies (or instructional designers) had tended to overlook the original, fundamental, epistemological ideas of constructivism by “pre-authenticating” learning environments, that is, by creating environments that are predetermined to reflect the real world and knowledge in a very specific way even though constructivist theory contraindicates precisely this pre-authentication or pre-determination (p. 53). This article echoes that argument by demonstrating how difficult it is to develop a strong CoP nested and sustained in online learning environments, which have a close finish. Thus, it may be useful for instructional designers to expend their view on learning environment to include distance learners’ life situations beyond their computer screens. Everyone has their own community in which they naturally learn, develop, and live with other members outside the courses as Sumi’s case demonstrates. Rather than putting so much effort to form a community inside our learning
environment, we can support them to form a stronger and more sustainable community in their lives through being engaged in learning activities in our course as Jane did.

References:


