Engaging Ignored Stakeholders of Higher Education Accessibility Practice: Analysing the experiences of an international network of practitioners and researchers

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Engaging Ignored Stakeholders of Higher Education Accessibility Practice: Analysing the experiences of an international network of practitioners and researchers

Jane Seale¹, Laura King²,³, Mary Jorgensen², Alice Havel²,⁴, Jennison Asuncion², Catherine Fichten²,⁴,⁵

¹ The Open University, UK; ² Adaptech Research Network, Montreal, Quebec; ³ Cégep André-Laurendeau, Montreal, Quebec; ⁴ Dawson College, Montreal, Quebec; ⁵ McGill University and Jewish General Hospital, Montreal, Quebec.

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Abstract

Purpose: The purpose of this paper is to examination and critique current approaches of the higher education community concerning stakeholder engagement in the development of ICT related accessibility practice.

Approach: The approach taken to this examination is to draw on presentations, panel discussions and World Café reflections from an International symposium held in Montreal where researchers and practitioners debated two key questions: Have all the relevant stakeholders really been identified? Are there some stakeholders that the HE community has ignored? and What factors influence successful distributed ownership of the accessibility mission within HE institutions?

Findings: A number of ‘new’ internal and external stakeholders are identified and it is argued that if they are to be successfully engaged, effort needs to be invested in addressing power imbalances and developing opportunities for successful strategic silo-crossing.

Value: The value of this paper is in critiquing the argument that all stakeholders in the development of accessible ICT in higher education need to be involved, identifying a gap in the argument with respect to whether all relevant stakeholders have actually been engaged and offering insights into this omission might be rectified.
Introduction

The focus of this paper is students with disabilities, information and communications technology (ICT) and the accessibility practices developed within higher education (HE) institutions to support students with disabilities in their use of ICT. Disability is defined broadly to include physical, sensory, mobility, psychological, medical and cognitive disabilities. It is acknowledged that disability does not define a single homogeneous group - students with different disabilities show substantial variation in terms of their experiences and abilities. In particular, the focus is on those students with disabilities who meet the regular admissions requirements of HE institutions; these encompass post-secondary technical schools or colleges (that offer certificate programs) and universities. It is widely agreed that students with disabilities in HE are less likely than students without disabilities to stay enrolled, earn higher degrees within prescribed time and secure employment (Mamiseishvilli & Koch, 2012). ICT is defined broadly to include classroom and online learning (both distance and blended learning); assistive technologies (AT) such as screen-readers; general use technologies such as tablets; social and networking applications such as Facebook as well as specific application technologies such as statistics packages.

The research and practice literature generally agrees that whilst students with disabilities can benefit from ICT, they can also be disadvantaged by ICT in a number of ways. Students with disabilities can experience discrimination when institutions expect them to use inaccessible ICTs as part of their studies or fail to utilise potentially
supportive ICTs (Asuncion, Draffan, Guinance & Thompson, 2009; Fichten, Asuncion & Scapin, 2014; Kent, Ellis & Giles, 2018). In addition, we know that the majority of university and college websites in the US and worldwide that are tested for accessibility have many faults and that this inaccessibility persists over time (Seale, 2014; Kimmons, 2017). This is despite the fact that accessibility standards exist and many countries have disability discrimination legislation in place that directly or indirectly requires educational institutions to address how their use of technologies mediates disadvantages for their students with disabilities (Seale, 2006; 2014). Unsurprisingly, this situation has led to repeated calls for higher education institutions to improve their ICT accessibility related practices. In order to respond to such a call, higher education institutions need to identify which staff (stakeholders) need to be responsible for improving accessibility practice.

Several of the authors of this paper are partners in a Leverhulme Trust funded International Network called Ed-ICT. Partners from US, Canada, UK, Germany and Israel have met on five occasions over the past three years in order to seek ways in which research can inform practice (and vice versa) so that the disadvantages that students with disabilities experience can be reduced or better still, eliminated. A central premise of the Ed-ICT International Network is that the community needs to develop a critical approach to developing accessibility related practice. Such criticality includes problematizing the current approach to stakeholder engagement in the development of ICT related accessibility practice in higher education.
The Higher Education approach to stakeholder engagement in developing ICT related accessibility practice

There is general agreement in the accessibility community that all stakeholders need to be involved in the development of ICT related accessibility practice within HE institutions (e.g. Policy Connect 2018). For example, German practitioners, Fisseler and Schaten (2010, p. 4046) draw on their own experiences of trying to improve accessibility as sole stakeholders (learning technologists) to conclude that it is not possible to achieve fully accessible learning experiences without the ‘concerted effort of all stakeholders at universities working together’. There is also some agreement as to who all those stakeholders are or should be. In 2006, Seale reviewed accessibility research and practice over the previous decade and concluded that too much focus had been placed on lecturers and their assumed responsibility to respond to accessibility related legislation and guidelines (e.g. Americans with Disabilities Act, Web Content Accessibility Guidelines). She argued that lecturers did not operate in a vacuum within HE institutions. She therefore proposed six main stakeholder groups in her contextualized model of accessibility practice: students with disabilities, lecturers (faculty), learning technologists (e-learning professionals), student support services (e.g. access technologists, disability officers), staff developers and senior managers (e.g. Deans, Vice Chancellors).

In reviewing the literature that discusses the actual or potential contribution of different stakeholders Seale (2006, 2014), Sieben-Schneider and Hamilton-Brodie, (2016), and
Vermette, Gruber, and Gareau-Wilson (2016) identified a wide range of roles and expertise. Some of these are stakeholder specific: for example, awareness of assistive technology (student support), teaching and learning services (faculty support) or knowledge of technical specifications (learning technologist). For other roles there is an assumption of joint expertise: for example, awareness of students with disabilities’ skills, needs and barriers, and supporting others. Sanchez- Rodriguez & LoGiudice (2018) argue that implementing accessibility related organizational change is a strenuous process and suggest that when stakeholders work together they can share the burden. The US based example they give is of a librarian and a Director of Disability Services fostering a ‘dynamic partnership’ through ‘close professional bonds’ in order to develop a more inclusive library environment for students with disabilities. Taking this further, Bohman (2007) advocated a distributed model of expertise, where not all the stakeholders need to have technical expertise, but noted that key people must be knowledgeable within their area of responsibility to prevent inaccessible practices.

Alongside the argument that stakeholders should have shared or distributed expertise is the claim that there has been a tendency for some stakeholders to rely on others to take responsibility for leading change in accessibility and digital inclusion practices. For example, in a survey of disability service providers faculty and e-learning professionals in Canada, Asuncion et al. (2010) found that campus disability service providers were most likely to believe that problems related to the accessibility of e-learning were their responsibility and e-learning professionals were least likely to claim responsibility. Observing UK practice, JISC (2006) and Mariger (2011) both
noted that there had been a tendency to rely on disability officers and support services to take the main responsibility for accessibility. JISC (2006) suggest that this is unhelpful because it fails to recognise the significant contributions that well-informed staff such as tutors, librarians and technicians can make. JISC (2006, p. 2) therefore concluded that ‘accessibility needs to be owned by all staff as a part of the mainstream culture’.

From the literature presented here, it is clear that the importance of engaging all stakeholders in developing accessibility practices is not a new idea. Researchers have been arguing this for over ten years. However, given that in 2020 students with disabilities are still experiencing significant accessibility related disadvantages and that researchers are still claiming that one solution to this is the involvement of all stakeholders, the time is right to critique this position and examine some important questions, such as:

1. Have all the relevant stakeholders really been identified? Are there some stakeholders that the HE community has ignored?
2. What factors influence successful distributed ownership of the accessibility mission within HE institutions?

These are some of the questions that the second meeting of the Ed-ICT International Network addressed in Montreal in June 2017. A range of stakeholders including students with disabilities, faculty, researchers, ICT companies and AT/access service providers were brought together. This paper will draw on presentations and panel
discussions reflections from this symposium to discuss our response to these questions and the implications these answers have for future accessibility research and practice.

**Methods**

The Ed-ICT International network has held five symposia over the past three years in order to seek ways in which research can inform practice (and vice versa) in the field so that the disadvantage that disabled learners experience can be reduced or better still eliminated (See Table 1).

<table>
<thead>
<tr>
<th>Date</th>
<th>Location</th>
<th>Theme</th>
</tr>
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<tbody>
<tr>
<td>March 14-15, 2017</td>
<td>Seattle, Washington</td>
<td>Effective models and frameworks</td>
</tr>
<tr>
<td>May 30-31st, 2017</td>
<td>Montreal, Canada</td>
<td>New stakeholder perspectives</td>
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<tr>
<td>March 13-14, 2018</td>
<td>Tel Aviv, Israel</td>
<td>New designs</td>
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<tr>
<td>October 16-17, 2018</td>
<td>Hagen, Germany</td>
<td>New Practices for effective transition</td>
</tr>
<tr>
<td>June 11-12 2019</td>
<td>Milton Keynes, UK</td>
<td>New solutions</td>
</tr>
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*Table 1: Data collection sites*

For each symposium a range of stakeholders including disabled students, faculty, researchers, ICT companies and AT/access service providers were invited to participate and contribute. For the purposes of this paper we will present information drawn from the second symposium in Montreal, where the sole focus was stakeholder perspectives (for an overview see Jorgensen, Fichten, King & Havel, 2018a).
Participants

There were a total of 45 participants at the Montreal symposium: 13 international (United Kingdom, Germany, Israel, The United States) and 32 Canadian. The local Canadian participants were recruited using both purposive (trying to ensure a range of stakeholder roles were represented) and convenience sampling methods (e.g. contacting stakeholders known to either the core network members or the host university). The Canadian stakeholders present at the symposium included: students with disabilities, disability service providers; faculty; faculty with disabilities; access technologists; campus information technology staff; senior institutional managers; researchers; professionals responsible for faculty / staff development; representatives of community organizations; education lawyers and librarians

Procedure

During the two-day symposium stakeholder perspectives were identified and discussed through a range of keynote presentations and panel discussions.1 For the keynote presentations Jennison Asuncion, drew on his experience as a senior engineer at LinkedIn to discuss what higher education institutions could learn from industry in order to make education more digitally accessible. While Alaina Beaver described how her institution had engaged a range of stakeholders in order to respond to an American Department of Justice (DOJ) complaint regarding the inaccessibility of information and communication technology. There were three panel discussions. In the first panel, five international researcher/practitioners representing Canada, The United States, Germany, Israel and the United Kingdom gave accounts, from their national perspective; regarding: the challenges faced in engaging
stakeholders, stakeholders that are difficult to engage, strategies used to engage stakeholders and the stakeholders they were currently working with. In the second panel, five Canadian practitioners (pedagogical counsellor, technical product manager, faculty, librarian and a coordinator of a non-profit organisation) considered the barriers and facilitators to disabled students accessible technology; what they and their colleagues could do to make technology more accessible and what their institutions could do to help them stay involved or become more involved as a stakeholder. In the third panel, six students with disabilities discussed the barriers they had encountered in using technology effectively, which stakeholders had helped them use technology and which stakeholders they thought should be involved in making technology accessible for disabled students. All participants were aware that their presentations and discussions would be summarized, analysed and shared within and outside the network as part of the core aim of the International Network to develop new research insights into how practice in this field might be improved.

**Data analysis**

A two-step process was used to distill key issues and themes from the Montreal symposium presentations and discussions. The first step took place during the symposium and utilized the World Café technique to engage participants in a reflective analysis of what had been debated during the two days. In this activity, the network leader, drawing on the presentations that had taken place, produced five position statements that participants were asked to respond to in small group discussions: It is not possible to engage disabled students who choose not to disclose their access needs; all stakeholders are equal, but some are more equal than others;
distributed ownership of the accessibility mission is a pipe-dream; we need to stop complaining about how unresponsive some of our stakeholders are and instead try to empathize with them and walk in their shoes and we need to engage senior managers. Responses to these statements were captured visually on flipcharts and then discussed and recorded in feedback sessions. During feedback sessions, areas of agreement (key themes) were identified. After the symposium, the second step in analysis involved the authors undertaking a connecting analysis (Maxwell and Miller 2008) in order to identify relationships that tied the themes identified in the presentations, panel discussions and World Café together into a narrative.

Results and discussion

Our two-stage analysis process revealed the following narrative:

- Not all the relevant stakeholders have been engaged
- In order to engage all relevant stakeholders, the community will need to engage in silo-crossing and address differences between stakeholders in power and status.

In this section we will illuminate this narrative by drawing on presentations, panel discussions and World Café reflections from the Montreal Ed-ICT symposium; linking to relevant international literature and discussing the implications for future accessibility research and practice.
Not all the relevant stakeholders have been engaged

Although not writing in the context of ICT, Bumble, Carter, Bethune, Day & McMillan (2019, p30) argue that “A cross section of stakeholders from both within and beyond a given campus community could be helpful in identifying the constellation of resources and partnerships needed to translate an initial vision into an actual program [of action]”. Analysis of discussions held at the Montreal Ed-ICT symposium suggest that a number of relevant but currently ignored stakeholders, from both outside and inside HE, need to be engaged in order to ensure successful development of ICT related accessibility practices.

Ignored non HE stakeholders

All the stakeholders identified so far in this paper are internal to HE institutions. There is a lack of acknowledgement however, that there are a host of stakeholders outside the institution that have an important role to play in ensuring that students with disabilities have access to ICTs. Montreal symposium participants argued that external stakeholders frequently excluded from discussion include: administrators at the state and national levels who make policy and budget decisions; commercial technology companies; commercial assistive technology assessment, provision and training companies; education publishers; legal experts; professionals that support students with disabilities before they transition to HE, such as school teachers and support workers; professionals that support students with disabilities with the transition
to employment or further education such as career advisors and employers and, finally, parents.

In his keynote speech, Asuncion (2017) argued that digital vendors in the private sector face the same accessibility challenges as HE institutions and, therefore, HE institutions might benefit from learning together with them how best to develop accessibility practice. Asuncion (2017) offers one example of how HE institutions might collaborate with commercial technology companies to improve accessibility related practice - an initiative called Technology Access, which is a collection of post-HE institutions and technical companies with a common goal to ensure that students have basic information on accessibility when they graduate and pursue a career in product development. Collectives such as these will only work if each party understands the concerns of the other. Asuncion (2017) suggests that in order to understand the concerns of commercial technology companies (e.g. how to marry accessibility with security, or how to ensure accessibility when products are being released at a very rapid rate), staff in HE need to “walk in the shoes” of the digital vendors.

Disabled students at the Montreal symposium reported that prior to entering HE, their parents had been a great support in terms of advocating for them regarding their access needs, sourcing new helpful ICTs and teaching them how to use the ICT (Jorgensen et al., 2018a). Whether parents should be stakeholders once their children with disabilities enter HE is worthy of further discussion and research. For example, to what extent would bringing parents into the stakeholder network deny the independence and agency of students with disabilities or usefully strengthen their
“digital social capital” (Seale, 2013) by extending their support network beyond support workers, lecturers and friends. The nature of parental influence and support may vary depending on factors such as geographic or cultural differences. For example, results from a UK study conducted by Seale, Georgeson, Mamas & Swain (2015) suggest that family and parents have a mixed influence on students with disabilities’ use of technology within HE. Under half of the students with disabilities in their survey indicated that their family had a very positive attitude to technology and encouraged them to use it (67 out of 153; 43.8%). A third of respondents indicated that their family had a neutral attitude (48 out of 153; 31.4%), while a small percentage reported that their family had a negative influence (4 out of 153; 2.6%). Further, under half of respondents indicated that their family response to technology influenced their own technology use or experience (67 out of 152; 44.1%).

**Ignored HE stakeholders**

Montreal symposium participants argued that a range of stakeholders within HE are rarely acknowledged, including procurement services; centralized services that do not interface with students such as legal departments, governing bodies and communication teams; peer experts; students without disabilities; students who do not disclose their disability and staff with disabilities.

**Procurement services**

Asuncion (2017) highlights that those working in procurement departments within HE were a ‘huge potential ally’. He suggests that procurement services should hold dedicated accessibility sessions and set up a process by which a list of potential
vendors is narrowed down, accessibility issues are addressed with the remaining vendors and then accessibility is stated in the contract. Asuncion (2017) points out that of course price would still be a primary determinant in the deal, but this at least brings accessibility to the forefront.

*Centralized services*

Beaver (2017) from the University of Boulder gives an overview of how her institution responded to an American Department of Justice (DOJ) complaint regarding the inaccessibility of information and communication technology (Beaver, 2017; see also Sieben-Schneider & Hamilton-Brodie, 2016). In order to resolve the investigation and build an infrastructure supportive of the ongoing accessibility of ICT, a number of stakeholders were assembled. In addition to procurement services, other high profile but frequently ignored stakeholders such as the ADA office, general counsel and university communications were engaged in responding to the DOJ. Sieben-Schneider and Hamilton-Brodie contended that each of these departments have a role in ICT service delivery or accessibility and that the inclusion of these stakeholder departments was necessary in responding to the DOJ, the overall remediation efforts and the creation of a system to manage future digital accessibility needs. It is not unusual for ‘big gun’ stakeholders such as these to be required to put out the fire and react to legal threats such as a DOJ complaint. However, what is more unusual is for them to be proactive and involved in shaping accessibility practice from the start through the governance (policy and legal) structures of their institutions. Some accessibility models have suggested the need for senior management with governance responsibilities to be at the core of a HE institution’s accessibility practice.
For example, the European based EU4ALL model was extended to include a model of professionalism in accessibility which could potentially help structure the direction of an organization and offer a way for an institution to benchmark the quality of its approach to accessibility by outlining the indicators for professionalism that facilitate and hinder accessibility (Montandon, Arjona, & Weiermair, 2010; McAndrew et al. 2012). These include the existence of strong legal frameworks and the development of accessibility policies; both activities where an ADA Office, General Counsel or equivalent would probably take the lead.

Beaver (2017) highlights how fundamental stakeholders for the University of Boulder included external partners from other HE institutions who had either dealt with a DOJ investigation or had excelled in the field of accessibility of digital technologies. Beaver calls this a ‘peer-experts model’ and argues that knowledge of the wider accessibility community is of central importance and that perspectives from stakeholders who are not part of the project itself can provide vital feedback. With the increased marketization of higher education (HE) across the globe, there is an increased competitiveness amongst universities as they vie for greater student enrolments and higher positions in the league tables. The extent to which these drivers might influence institutions to collaborate and share accessibility expertise, or to ‘close the doors’ in order to gain market or public relations advantage, may be worthy of further investigation.

*Students without disabilities*

Whilst students are an acknowledged stakeholder, this usually refers to students with
disabilities, that students without disabilities could also be useful allies and stakeholders. Firstly, because some of their needs overlap with those of students with disabilities and if they added their voices in advocating for change, it might increase the probability of it happening.

Arguing along similar lines, but not in the context of ICT, Everett and Oswald (2018) explore how involving students without disabilities in the design of an inclusive curriculum might improve the learning experience of their peers with disabilities. One ICT related example is a study conducted by the Adaptech Research Network (Jorgensen, et al., 2018b) that looked at Canadian students’ perceptions of their lecturers’ use of PowerPoint. To develop a comprehensive questionnaire, focus groups were held with students, lecturers and student support services (disability support officers, assistive technologist and learning strategists). The majority of student support service providers and students who participated in the focus groups, as well as the students who answered the questionnaire (n = 284, of whom 75 had disabilities), wanted their lecturers to provide timely online access to their PowerPoints, before the lecture being the ideal time as opposed to afterwards. Some also mentioned the need for PowerPoints to be accessible across various platforms, including mobile technologies. These results were equally true for students with and without disabilities.

Secondly, there is evidence to suggest that one of the first sources of support that students with disabilities turn to in order to get ICT related help is friends from the same course or residence hall- i.e. friends who do not necessarily have a disability
(see for example, the UK study conducted by Seale et al. 2015). Whilst it was not particularly clear whether they were referring to peers with or without disabilities, students with disabilities at the Montreal Symposium talked about how having students who have used the same technology teach other students is ideal because they can explain from a users’ perspective and in less technical terms than a professor or assistive technologist (Jorgensen, Fichten, King & Havel, 2018a).

**Students with disabilities who do not disclose their disability**

In her opening address to the Montreal symposium, Seale (2017b) argued that students with disabilities who do not disclose their disability to the HE institution constitute a stakeholder group that needs to be engaged. The literature on disclosure reveals that many students with disabilities feel unable or reluctant to disclose and ask for the accommodations they need, which has implications for their access to ICT. For example, findings show that in Canada over 50% of students with disabilities did not disclose their disability (Fichten et al., 2018). Prominent among those who had not done so were students with non-visible disabilities, such as attention deficit hyperactivity disorder (ADHD), mental illness and chronic medical conditions. One significant reason why students with disabilities choose not to disclose is a fear of being labelled and stigmatized as being different or deficient (Stein, 2013; Nolan, Gkeesin, Treanor & Madigan, 2015; Osborne, 2019). This fear is often borne out of personal experience of negative attitudes towards disability and a lack of understanding of access needs (Ryan, 2007; Denhart, 2008) and can result in students with disabilities not being able to receive the accommodations that they need (Evans, 2014; Nolan et al. 2015). One potential way to encourage students with
disabilities to disclose is to support them to develop their self-advocacy skills. For example, in a US study, Hsiao, Zeiser, Nuss and Hatschek (2018) describe how a music major student with disabilities collaborated with faculty members, peer tutors and access service specialists in order to reach joint decisions on accommodations. With support, the student moved from being afraid to disclose her needs for fear of stigmatism to being comfortable speaking up for herself. Seale (2017c), on the other hand has argued for collective, rather than individual self-advocacy; her proposition being that students with disabilities can be a great help in further mobilising the grassroots movement. Often, accessibility issues are left on the shoulders of individual students. Instead, there may be value in helping students move forward as a group, creating a coalition to advocate for accessibility. However, in an interview study with 59 US students with disabilities, Kimball, Moore, Vaccaro, Troiano & Newman (2016) found that their participants tended towards individual rather than collective action. Interestingly they also found that their participants learnt their self-advocacy skills from their parents, thus reinforcing the suggestion that parents are a key stakeholder group. In addition, individual activism took many forms including providing role models for other students with disabilities and encouraging others to self-advocate. Further research into ICT related self-advocacy would help to illuminate why there might be a tendency towards individual rather than collective action and also what are the perspectives of students with disabilities regarding the potential roles they might take. For example, one useful strand of work could be to try and replicate the study of Salaj and Kis-Glavas (2017) who used the Q-method with 15 students with disabilities studying at the University of Zagreb in Croatia. Factor analysis revealed three different perspectives or positions that the students took with
regards to their role in influencing policy at their institution: i) silent and passive actors (actors that need to be strengthened and educated for action), ii) influential actors (actors who have knowledge, advocacy skills, motivation, and a certain degree of power to influence others), and iii) isolated actors (actors who have lost motivation for action and have little power). Are students with disabilities who rely on ICT to support their learning likely to adopt one position more than another? Does the sustained and prolonged inaccessibility of ICTs mean that students with disabilities who rely on ICT are more likely to have lost motivation for action?

Notwithstanding differences of opinion regarding individual or collective self-advocacy, we acknowledge that the call for higher-levels of self-advocacy amongst students with disabilities is also likely to divide the disability and ICT community depending on what position they take regarding Universal Design (See for example Jorgensen, Fichten, King & Havel, 2018a). Like participants of the Montreal Ed-ICT symposium, some members of the community are likely to argue that if Universal Design is implemented then there should be diminished need for students with disabilities to have to disclose their disability and self-advocate for their needs to be met. Self-advocacy should not have to replace good practices and support. Others may argue that Universal Design does not guarantee accessibility and some students might need ‘customization’ to meet their needs. Therefore, if students with disabilities did not self-advocate, they would not get the resources they need to resolve the accessibility issues that they encounter. Interestingly, results from a systematic literature review conducted by Schreffler, Vasquez, Chini and James (2019) suggest that implementing Universal Design can increase levels of self-advocacy for students with a disability (although
this is only based on one paper out of four that were included in the review).

Given the potential divergence of views, more research is needed to collect the evidence that self-advocacy initiatives do actually elicit a genuine transformational response from HE institutions. A second priority for research and practice is the need to design, develop and evaluate student voice initiatives that are specifically aimed at engaging students with disabilities in ICT and accessibility policy transformation (Redpath et al. 2013).

**HE staff with disabilities**

At the Montreal symposium, Seale (2017b) also argued that it would seem logical that creating an inclusive environment for students with disabilities would also involve the need to recognize and support staff with disabilities within HE. If staff with disabilities are successfully engaged in the accessibility enterprise of an institution, they might be able to act as role models; to show students with disabilities that it is possible to succeed in HE. Staff with disabilities might also demonstrate best teaching practices to their peers (Anderson, 2006; Higbee & Mitchel, 2009). Furthermore, students with disabilities may be more inclined to use ICTs if they saw more staff with disabilities in their institutions successfully using assistive technology to support their teaching and research activities. Significant barriers to the engagement of staff with disabilities as key stakeholders exist however. Although there is very little research devoted to understanding the experiences of staff with disabilities (including graduate students), their stories tell of difficulties in preserving jobs and having to manage without accommodations (Abram, 2003; Damiani & Harbour, 2015). Furthermore, many staff
with disabilities, just like students with disabilities, do not disclose their disability for fear of being treated differently. It would seem therefore, necessary to investigate this issue in more detail and in particular to test the assumption that staff with disabilities can or even want to advocate for students with disabilities.

**Factors that influence successful distributed ownership of the accessibility mission within HE institutions**

The Montreal Ed-ICT symposium participants have identified a number of the relevant stakeholders that are currently not engaged, or are less engaged, in developing accessibility practice in HE. If they are to be successfully engaged in the accessibility mission, HE institutions will need to be aware of what factors influence the engagement of current stakeholders. Two factors that Montreal symposium participants identified as potentially influencing the successful distribution of ownership for the accessibility mission are ‘silhouette-crossing’ and differences in power and status (National Educational Association for Disabled Students, 2018)

**Silo-crossing**

In her Montreal symposium key-note speech, Beaver (2017) argued that one key component of a successful model which ensures accessible ICT is strategic silo-crossing. She defined this as ensuring that the same stakeholders have roles on different executive teams. Beaver argued that this helps foster new relationships among stakeholders, ensuring that stakeholders will have the motivation to work
collaboratively. Silo-crossing might also help diffuse the ‘blame game’ because the different stakeholders are aware of the responsibilities assigned to each stakeholder. In a similar vein, drawing on the Community of Practice theory (Wenger, 1998), Seale (2006) identified the importance of ‘brokers’ who create connections between different communities or stakeholder groups. The job of brokering is a complex one, involving processes of translation, co-ordination and alignment between perspectives. Brokers need to have legitimacy so that they can influence the development of practice, be able to link practices by facilitating transaction between them and be secure in living on the boundaries of different stakeholder practices. Within the accessible e-learning community, there are examples of different stakeholder groups taking on an obvious brokerage role. The two most notable examples are that of disability officers (staff working within student support services who have an expert knowledge of disability and/or technology, such as access technologists) and staff developers (including educational developers). Disability officers are a natural choice for the role of broker in that they have a history of providing a focal point for disability issues by raising awareness throughout an institution; acting as a ‘broker between the student and the relevant department’ and facilitating academic staff to take on board the role of supporting students with disabilities (Seale, 2006).

Some evidence suggests, however, that silo or boundary crossing between different stakeholder groups can be difficult. For example, Behling and Linder (2017) identified difficulties in collaborations between access services and staff developers. These included time and logistics, faculty-related challenges, competing priorities, changing the campus culture, funding issues and limited resources. Examples of competing
priorities included ‘speaking different languages’ when it came to privileging ‘reasonable accommodations’ over universal design or vice versa.

**Differences in power and status**

In the fields of inclusive education and widening participation, there is a generally accepted argument that power structures within higher education institutions silence the voices of students with disabilities, deny their experiences of inequalities and therefore oppress them (Luna 2009; Beauchamp-Pryor 2012). Higher education institutions use their power to oppress in a variety of ways including: 1) ‘labelling’ practices that mark them out as different and deficient, therefore denying or ignoring any alternative identity that students with disabilities might have claimed for themselves or 2) refusing to make reasonable adjustments or change their pedagogical practices so that all students can participate in and benefit from the learning experience. (Seale, 2017b). Issues of power and oppression are therefore at the heart of debates around how best to engage one particular stakeholder - students with disabilities. It is rarely acknowledged however, that other stakeholders might also experience differences in power, and therefore be oppressed in the sense that they are less able to bring about change. It is therefore noteworthy that Montreal symposium participants identified that one significant barrier to collective ownership of the accessibility mission is that in addition to disabled students, other stakeholders also have less status and power than others. This implications for the extent to which they can voice their own views and have a say in the decisions being made; advocate for others (e.g. students with disabilities) and cross silos or stakeholder practice boundaries.
This imbalance in power might be real or it might be perceived. Either way it can hinder the development of accessibility practice (Jorgensen et al. 2018a). For example, faculty are often claimed to be more powerful than students and service providers. Conversely, administrators tend to be positioned as being more powerful than staff. Seale (2017b) argued that some student support staff, including assistive or access technologists, experience a lack of perceived power. This means that when they advocate for students with disabilities, they may not be listened to. There may be two reasons for this: one is that their roles are poorly understood and therefore they have low visibility, the second is that they may be stigmatised by their association with students with disabilities (Thompson, 2009; Johnson, 2009).

One potential risk of the ‘power-identification game’ is that it might unhelpfully focus attention towards blaming stakeholders for abusing their power in order to maintain the status quo, rather than illuminating what might need to happen in order for power to flow across the whole collective of stakeholders.

Conclusion

In this paper we have argued that the HE community approach to stakeholder engagement in the development of ICT related accessibility practice needs to be critically examined. Drawing on data derived from a two-day symposium held in Montreal we take the first step towards this critical examination.
Our analysis identified a number of ignored or invisible stakeholders and suggested that their involvement might enhance the effectiveness of accessibility practice. One way this might be done is through ‘strategic silo-crossing’. For example, staff in procurement services could potentially broker connections between students, lecturers, legal representatives and technology companies; legal representatives could broker connections between lecturers and managers who have a responsibility for policy development and staff with disabilities could broker connections between faculty and students with disabilities. In order to institutionalize and legitimize these brokering activities institutional policies and strategies will need to be put in place in order to ensure that training and resources are available to brokers, regular ways for brokers to interact are established and all accessibility related professionals have diverse skill sets so that they can understand and communicate effectively with brokers (and other stakeholders).

Bringing these new stakeholders into the HE accessibility community however, will not necessarily be successful unless existing stakeholders address both current power imbalances and potentially new power imbalances that may be created by engaging new stakeholders. In order to address such power imbalances it will probably be necessary for the HE institutions to acknowledge and engage in the arguments rehearsed in the disability studies literature that when students with disabilities experience inaccessible ICT, they are experiencing a form of oppression.

Members of the HE accessibility community frequently express token agreement to the value of engaging all stakeholders. This paper contributes to knowledge by
suggesting that this commonly identified solution is more complex than those who pay ‘lip service’ care or dare to realise.

Further research is needed with wider representation from the accessibility community in order to extend our critical examination of stakeholder engagement in the development of accessibility practice in higher education. For example, utilizing action research or participatory action research methods, detailed case studies of a range of universities could be undertaken in order to compare and contrast different approaches taken to engaging stakeholders and the impact of these approaches on the eventual outcome. Within Europe, one potential driver that might persuade institutions to undertake an action research project of the kind we have proposed is the European Union’s directive on the “Accessibility of public websites and mobile applications” which came into effect in September 2018 and which requires public sector organisations such as universities to ensure their websites and mobile apps meet common accessibility standards.

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Notes


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