A Renaissance of Audio: Podcasting approaches for learning on campus and beyond

Palitha Edirisingha [pe27@leicester.ac.uk]
Beyond Distance Research Alliance, University of Leicester, University Road, Leicester LERH, UK. [http://www.le.ac.uk]
David Hawkridge [d.g.hawkridge@open.ac.uk]
John Fothergill [jcf@leicester.ac.uk]

Abstract

In this paper, we urge practitioners to consider the potential of podcasting for teaching, learning and assessment. Our perspective is drawn from research on IMPALA (Informal Mobile Podcasting And Learning Adaptation), which showed that there is a range of successful podcasting approaches for students on campus. After briefly surveying the background literature, we provide examples of three approaches, from three different universities: 1) helping students to prepare presentations and assessed work, 2) offering feedback from staff on students’ assessed work, and 3) assisting undergraduates to make the transition from school to university. Finally, we would like readers to consider how podcasting approaches like these can be converted for distance education. On the evidence available to date from IMPALA and other studies, we feel confident in predicting that podcasting will be integrated more and more into distance education, to the immense benefit of the long distance learner.

Keywords

Podcasting, IMPALA, student presentations, assessment feedback, transition to university, distance education

Topics

- Background literature
- Podcasting approaches to support student learning
- Podcasting to help students to prepare presentations and assessed work
- Podcasting to offer feedback from staff on students' assessed work
- Podcasting for transition from school or college to university
- Discussion and concluding remarks
- References
- Acknowledgements

Background literature

Audio is not a new technology in education. Learners have been listening to educational radio for nearly a century (Hawkridge and Robinson, 1982). Even before that, they could listen to audio recordings. Durbridge (1984) identified audio’s key educational advantages. She found that students liked learning from audio because they learned well from recorded sound. They found audio useful for understanding spoken language, analysing music and hearing the professor’s voice. They liked listening in on conversations about parts of their courses. They also liked being ‘talked through’ tasks in the laboratory or workshop, listening to discussions and opinions from experts in their field, and being encouraged by the voice of somebody they knew and respected. Bates (1981, 1984), Perraton (2006), Power (1990), Yates and Brady (2000) and Young et al (1980) provided examples of the use of audio from primary and basic education to higher education, covering a range of formal, non-formal and informal curricula, in economically developed and developing regions, offered both at a distance and on campus.

Although audio had been proved successful in terms of student learning, especially in distance education, Power (1990, p. 43) recognised that its use had been ‘often undervalued’. Among the reasons were perhaps the lack of production, recording, distribution and playback facilities for audio, and, in the case of radio, the lack of flexibility of broadcast schedules. Lee and Chan (2007a) pointed out recently that audio had been neglected and underused.

Podcasting has expanded the opportunities for using recorded audio as a learning medium. Today, audio ‘is experiencing a renaissance’ (Schlosser and Burmeister, 2006). What Schramm (1977) more than four decades ago considered a ‘little medium’ – in terms of its cost and complexity to produce as well as its impact compared with television or film – is now reappearing on the educational stage, to the benefit of both campus and distance learners.

A podcast is a digitally recorded sound (or sometimes sound with vision) file. The name comes from the Apple iPod, a small, very portable player with a huge memory into which thousands of podcasts can be downloaded. Podcasting is strictly speaking the process of rendering the files accessible to listeners, usually via the Internet or a computer network from which they can be downloaded onto an iPod or similar MP3 or MP4 player. However, as with ‘broadcasting’ and ‘broadcasts’, podcasting is often applied to the whole system of making and using podcasts.

Podcasting can now be considered as a stable technology, ready to move from experimental and pilot uses into mainstream education. There is a significant body of empirical evidence of the impact of podcasting on student learning and staff engagement. Academics are developing podcasting approaches within a variety of educational contexts, though most take a single aspect of teaching and learning (for example, presenting information to students) and develop a podcasting approach to support it. Universities are integrating podcasts into their learning environments, for use on campus, nationally and even globally.

Several trends work in favour of podcasting moving from a peripheral to a core technology for learning. First, researchers and practitioners are piloting many different approaches to using podcasts to support student learning. We give just three examples, but many more are described fully in Salmon and Edirisingha (2008). Details of others are available in the literature and in conference proceedings (EDEN, ALT-C, Online Educa), in informal and formal communities of practice such as Podcasting for Pedagogic Purposes.
Podcasting approaches to support student learning

Early adopters of podcasting have chosen a range of approaches to using it to support learning. Several were developed within a research project started in 2006 called IMPALA (Informal Media for Peer-Led Learning Adaptation, http://www.impala.ac.uk), involving colleagues in 10 campus universities in the UK, South Africa and Australia. IMPALA was and is empirically based, within an action research framework. It started with a pilot at the University of Leicester in an undergraduate engineering module (Rothergill, 2008) that integrated podcasting and e-tivities based on Salmon’s (2004) five-stage model for collaborative online learning. Using the guidelines and a preliminary podcast model developed from the pilot, IMPALA partners created their own podcasting approaches to address their specific teaching and learning challenges. Over 500 students and 20 academic staff have taken part in IMPALA since 2006. The podcasts’ impact on students’ learning was studied through collecting and analysing qualitative and quantitative data.

The podcasting approaches developed in IMPALA – and the students’ learning outcomes – are reported fully in Salmon and Edirisingha (2008): the approaches included using podcasts to provide summaries of lectures, podcasts to prepare students for geography field work, podcasts to help students learn to use computer software, and so on. Here we present examples from three different UK universities: 1) helping students to prepare presentations and assessed work, 2) offering feedback from staff on students’ assessed work, and 3) assisting undergraduates to make the transition from school or college to university. All three can be easily adapted for learners at a distance.

Podcasting to help students to prepare presentations and assessed work

An approach adopted by Rothwell (2008) at Kingston University was to use podcasts to help undergraduates to develop their skills in preparing mid-semester presentations and an end-of-semester portfolio as assessed work. Rothwell’s students, who come from varied backgrounds in the humanities and social sciences, take her core module in English Language. They receive very little support from their peers as they have no previous cohort identity: many are meeting for the first time. She felt that the conventional, face-to-face study skills sessions were inadequate, and used podcasts to address the skills her students required for assessed work. In a sense, she used a kind of distance learning to replace or complement in-class learning.

Rothwell developed a series of podcasts, each about 10 minutes long, and made them available fortnightly on the course VLE site. Her podcasts aimed to: enhance students’ understanding of the module’s core concepts and issues, improve their revision, writing, speaking and presentation skills, and offer them frequent advice on developing the end-of-semester portfolio. She divided each podcast into short sound clips. Some clips explained key concepts covered in lectures and seminars, some were discussions between students and staff on assessment tasks, and in others, the student mentors (senior students) provided study tips. With a view to developing collaboration and cohort identity among her students, she arranged for podcast content to be generated from interviews with current and previous students, and from interviews with student mentors who help Level 1 students at the Faculty’s drop-in academic skills development centre.

Rothwell’s approach to using podcasting yielded benefits and positive learning outcomes for her students (for full details see Rothwell, 2008). Her podcasts became a valued resource for students to learn more about and clarify issues related to preparing presentations and developing portfolios for assessment. The
Podcasting to offer feedback from staff on students' assessed work

The rationale behind France and Ribchester's (2008) approach to using podcasts at the University of Chester in the UK to offer feedback to students on their assessed work was that feedback can perform an important function in the teaching and learning process. Feedback, if it is of high quality, can help students to reflect on their work. France and Ribchester decided that podcasts would improve the nature and quality of their feedback comments. Their series of podcasts provided feedback for students on two geography modules (one in first year, and the other in the final year). In the first year module, students were assessed using short question-and-answer tests and a fieldwork report presented as a website. In the final year module, undergraduates completed three assignments: a single PowerPoint slide (an e-postcard) designed to 'persuade' a world leader to change policy on a key aspect of climate change, a group oral presentation and a fieldwork report (France and Ribchester, 2004).

Their feedback to students was via two kinds of podcast for each assignment. They created a personalised one for each student, with feedback on the quality and mark for each assignment. The second kind contained comments on the performance of the group as a whole, reflecting on the strengths and weaknesses of the students’ work. Each student received a single sound file containing both podcasts: his or her personal feedback and the group feedback. Students received an automatic email as soon as a new sound file became available for them to download. They were encouraged to listen to comments on their own performance and then to compare what they had done with the group’s performance. These podcasts did not replace textual feedback altogether; students also received brief written feedback and a mark for the assignment. In addition, the podcasts were posted in the feedback section of each student’s electronic progress file (personal development planner), embedded into the university’s VLE.

The evaluation of France and Ribchester’s podcasts showed that their students valued the in-depth and detailed feedback on audio more than what they would normally get as written feedback. They appreciated the personalised nature of part of the feedback, and the immediacy and sense of intimacy conveyed by tutors’ voices. Feedback via the podcasts reached students quicker, and they liked the flexibility of listening to podcasts where and when they wanted to. All the podcasts could have been used equally by learners at a distance. In fact, individual learners received the feedback podcasts at times and places of their own choosing, just as distance learners do.

Podcasting for transition from school or college to university

The most recent research within IMPALA is on a podcasting approach at the University of Leicester (a campus university with over 7,000 distance learners) to support new undergraduates’ transition from school or college to university (http://www.impala.ac.uk/impala4t/index.html). Students’ satisfaction, academic performance and retention identify the critical importance of the first year for shaping their attitudes and approaches to learning. Successful transition to university has a direct impact on students’ later learning experiences, particularly during their first year.

Most interventions to support transition are based on institution-driven approaches such as courses on learning and study skills. The knowledge and experience of students who have already made the transition have rarely been exploited. Such knowledge (called ‘hot knowledge’ by Ball and Vincent, 1998), can be identified as the socially embedded knowledge prevailing in networks of friends, family, relatives and neighbours, and those who are generally considered as ‘people like me’ (Hutching, 2003, p. 110).

Podcasting can capture this ‘hot knowledge’ and make it available to aspiring entrants and first-year undergraduates. IMPALA taps the knowledge and experience of students who recently made their own transition. With a lecturer’s guidance, second- and third-year students in the Department of Biological Sciences have created a dozen podcasts addressing a variety of social and academic issues important for successful transition to university. These podcasts are available at (http://www.startinguni.info) and on iTunes U for public access. Some are relevant to campus study, but others are of value to learners at a distance as well.

Results from interviews with students suggest that they see the student-created podcasts as helpful in three areas of transition: social, academic and institutional. For each area of transition they identified specific attributes that need to be considered by academic institutions in supporting new entrants. Results from interviews with students suggest that they see the student-created podcasts as helpful in three areas of transition: social, academic and institutional. For each area they identified specific information needs that need to be considered by academic institutions in supporting new entrants. These include information and knowledge about services available within the institution, such as the library facilities, the VLE platform and support services; information about tutorials, assignment submission procedures and communication with tutors; and developing relationships with peers and specific interest groups. Clearly, some of these needs arise from campus-based learning, while others are common to distance learners as well as those on campus.

Discussion

Although all three of these approaches are examples of podcasting being developed for use by campus-based learners, the important questions that arise for EDEN members and other EURODL readers are how valuable podcasts can be to learners at a distance, and how easily can they be adapted.
rap! Since this module was and is being taught online, it would be very easily adapted for distant students. Fothergill's approach to using podcasting would be admirably suited to and valuable to them, helping them to feel a sense of community by 'meeting the prof' in each week's podcast. In fact, he called it 'profcasting'.

The only difficulties might arise in providing distant students with facilities for online tutorials, perhaps in Elluminate or Wimba, not in using his podcasts.

Rothwell's (2008) approach to podcasting at Kingston University would convert well to distance learning, except that she was helping her students in part to hone their presentation skills: distant students seldom if ever have opportunities to present their work face-to-face, though they can use other means. She was also helping her students to get their portfolios ready to be assessed: that is something distant students on certain courses have to do too, and her podcasts would help them. She asked students, including the student mentors, to help her to create podcasts based on their experience. That approach would transfer particularly well to distant students, who could speak up about the problems and solutions they had found, for the benefit of other students new to distance education.

France and Ribchester's (2008) approach at Chester University in the UK to using podcasts to give their students feedback on assessed work would convert to distance education almost without alteration. Distant students would appreciate even more than their campus-based colleagues the spoken feedback from tutors on their work. The podcasts would help to bridge the gap, since in many cases distant students never meet their tutors.

The podcasting approach being used at the University of Leicester to support new undergraduates’ transition from school or college to university is very well matched to the needs of distant students, except of course the experiences and advice from students contained in the podcasts would have to be related not to campus-based study but to learning at a distance. Distant students are often older too, therefore the transition might be less often from school or college than from not having studied for some years to studying at university level away from the campus, using the materials and systems provided.

Concluding remarks

The IMPALA studies were aimed at evaluating podcasting for campus-based learners. There is nothing, however, inherent in the technology or the approaches used in this research that would prevent learners at a distance from taking advantage of podcasting. Indeed, they can benefit right away from the huge number of podcasts freely available to them online from other sources. Podcasts especially created for distance learners, as reported by Chan and Lee (2007a, 2007b) and Khechine, Lakhal and Pascot (2006), helped distance learners in maintaining motivation, developing as independent learners, developing effective learning strategies, increasing their ability to reflect on their learning, providing them with greater satisfaction with the course and increasing their participation rate in learning activities. Podcasts created by Fothergill (2008) for his online learners helped them to feel part of learning community, and to ‘meet the prof’ through podcasts.

The only limit to their learning lies in the skill of academics – and students – in generating podcasts that meet the learners’ needs. Not every distant student will want to learn what the academics have included in their podcasts, but there is now a vast store for these learners to choose from. Cultural differences and language problems may hinder understanding, just as they do for streamed video or printed text, but learners can listen again and again to podcasts, where and when they want to.

On the evidence available to date from IMPALA and other studies, we feel confident in predicting that podcasting will be integrated more and more into distance education, to the immense benefit of the long distance learner.

References


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Palitha Edirisingha is a Lecturer in the Beyond Distance Research Alliance at the University of Leicester.

David Hawkridge is a Visiting Professor in the Alliance and Emeritus Professor of Applied Educational Sciences in the Institute of Educational Technology at the Open University, Milton Keynes.

John Fothergill is Professor and Head of Engineering at the University of Leicester.

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