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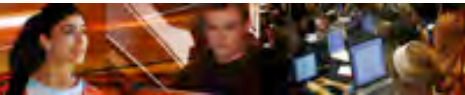
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A peer review model for the ALTC Exchange: The landscape of shared learning and teaching resources

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The ALTC Exchange (formerly the Carrick Exchange), is a national repository and networking service for Australian higher education. The Exchange was designed to provide access to a repository of shared learning and teaching resources, work spaces for team members engaged in collaborative projects, and communication and networking services. The Australian Learning and Teaching Council (ALTC) established the Exchange for those who teach, manage and lead learning and teaching in higher education. As part of the research conducted to inform the development of the Exchange, models for peer review of educational resources were evaluated. For this, a design-based research approach was adopted. Findings from the literature and feedback from key practitioners and leaders within the sector are discussed in this paper.

Keywords: ALTC Exchange, Carrick Exchange, peer review, MERLOT

Introduction

The ALTC Exchange (the Exchange) was designed as an online service that would “provide learning and teaching resources and functions to support communication and collaboration across the higher education sector” (ALTC, 2008). Originally called the Carrick Exchange, the repository and associated services for professional communication relating to learning and teaching was commissioned by the Australian Learning and Teaching Council (ALTC). During the development phase of the Exchange (2006 – 2007), funds were provided to support research by the Australasian Society for Computers in Learning in Tertiary Education (*ascilite*) into the needs of potential users of the system, the probable contexts of use for the system, and the policies and protocols required to facilitate engagement of and contribution by the higher education sector with the Exchange. Production of a model for peer review of educational resources contributed to the Exchange was integrated into the research brief. The aim was to investigate and derive formal and informal peer review protocols and mechanisms from the Australian higher education community, incorporating experience and research from international sources as relevant. This paper establishes the context of that research, describes the methodology used, reports on the findings from the research and the model for peer review derived for the ALTC Exchange. The focus is mainly on the formal rather than informal processes generated.

Peer review for this context refers to the evaluation of teaching resources by those with qualifications and standing in the higher education sector who are capable of assessing the worth and value of teaching resources and similar artefacts. Reviewers might be educators, academics, consultants, designers, editors and other professionals. In general, peer review is a means of giving and receiving structured feedback so as to improve learning and teaching resources. Peer review may be one of three types. It may be for quality assurance purposes, assessing e.g. the currency, educational design and construction of resources; copyright and digital rights; technical accuracy and reliability of resources. Secondly, it may be a formal process conducted by teams of experts, replicating scholarly peer review and publication methods. This tends to be a lengthy process, and in addition to assessing elements of quality assurance, may assess issues such as educational effectiveness, relevance, originality and

currency. Formal peer review is generally conducted against specified standards, and resources considered worthy of formal peer review are likely to be perceived as high quality examples of best practice. The third type of peer review considered for this research, is an informal process, known as “commentary”, and includes peer evaluation submitted in an ad hoc fashion as discussion about, annotation of and comment on teaching resources and ideas. Any member of a community such as the ALTC Exchange may contribute commentary. Informal peer review is recognised as a support mechanism for peers around good practice in learning and teaching, and is essential to the development of communities of practice (Philip et al, 2007, p.846). It can also be a mechanism by which individuals show leadership and expertise in the field. Examples of resources that might be peer reviewed in the context of the ALTC Exchange, either formally or informally, are: learning objects; learning designs; simulations; role plays; case studies; teaching and learning approaches; assessment schemes and programs; course and curriculum syllabi, outlines and materials; curriculum development documents; statements of teaching philosophy; and mentoring programs.

Methodology

The methodology adopted for the project has been described in detail elsewhere (O’Reilly, Lefoe, Philip & Parrish, 2008). In summary, however, a design-based research approach was adopted. There are four elements in this research process: (1) analysis of the problem by practitioners and researchers; (2) development of solutions within a theoretical framework; (3) evaluation and testing of solutions in practice; and (4) reflection and documentation to produce design principles (Reeves, 2000). The incorporation of the views of practitioners and researchers is crucial for the methodology. A process of four cycles of data collection was implemented for the *ascilite* research. Each data collection cycle incorporated the four elements listed above over an eighteen-month period (June 2006 to December 2007). At each stage, the views of participants on user engagement of repositories and communities, content contribution and peer review processes were sought.

In brief, the four cycles of data collection were undertaken to interview key practitioners as individuals (Cycle 1), engage focus groups of key practitioners (Cycle 2), consult with a series of *ascilite* reference groups (Cycle 3), and derive culminating data at an international symposium (Cycle 4). In the first instance, to analyse the problem, Cycle 1 data was derived from interviews with twenty-nine key practitioners and leaders in the Australian higher education community and related international projects. Interviewees were recruited from a range of disciplines, institutions and fields of study. Interviews were recorded and transcribed, sent back to interviewees for validation, and systematically analysed with the aid of qualitative analysis software (NVivo). A substantial literature review underpinned the research process. Development of solutions to identified problems was undertaken in Cycle 2, and data obtained through three focus groups. A total of 22 participants representing institutions from around Australia attended the sessions. The focus groups assisted with validation of the analysis of data from Cycle 1, prioritising issues and generating strategies to address the issues. The draft strategies and policies created as a result were then circulated for review to members of the *ascilite* community in Cycle 3. For the three reference groups conducted during Cycle 3, 24 *ascilite* members were chosen. Reports from Cycles 1 and 2 were reviewed by the reference group members. The resulting critical commentary was incorporated in Cycle 4 analysis and documentation. Cycle 4 data collation was completed at the 2007 annual conference of *ascilite*. International perspectives were provided by the North America MERLOT project (Multimedia Educational Resource for Learning and Online Teaching, <http://www.merlot.org/merlot/index.htm>) and the CD-LOR project from the United Kingdom (Community Dimensions of Learning Object Repositories, <http://www.academy.gcal.ac.uk/cd-lor/>) along with the Australian ALTC Exchange findings (<http://www.altcexchange.edu.au/>), and presented at the conference symposium. Discussion and suggestions from conference delegates were incorporated into the final reports, which included recommendations and design principles generated for the project.

The research questions that formed the basis for the investigation were as follows:

- What new and current methods exist for peer review of, and commentary on resources, and which of these can be adapted for use for the reviewing of teaching and learning resources?
- ‘What’ gets peer reviewed?
- What methodologies apply to different types of resources?
- What processes for peer review are used?
- Who are the reviewers?
- What recommended policies and procedures are currently in use?
- What are the policy implications for the Exchange?

Models of peer review

Taylor and Richardson (2001, p.7) offer four reasons for peer review:

- The need for the evaluation of quality in ICT-based resources;
- The need for recognition for the developer of ICT-based resources;
- The need for the collaboration and dissemination of resources and knowledge relating to the design and construction of these resources; and
- The need for this quality assurance, recognition and collaboration to be grounded in the concept of scholarship.

In addition to the above, the *ascilite* research found that peer review should:

- Provide a review process that is nationally recognised as transparent, fair, valid, and reliable;
- Assure the quality of the collection, and support the delivery of high quality, reviewed resources;
- Foster professional development via development and review of teaching and learning resources;
- Enhance resources submitted to the Exchange which are “under development” (in progress);
- Encourage collaboration and the development of networks and communities of practice; and
- Foster the recognition of ALTC Exchange as a dynamic, useful and accessible collection.

Quality

One of the critical success factors for the design of a repository such as the Exchange, is assurance of the quality and currency of resources contributed to it. Quality can be assessed through two related processes: 1) quality assurance methods and 2) peer review processes. The quality of contributed resources is of interest to both the managers and end-users of repositories such as the Exchange. Feedback from participants in the research emphasised the importance of quality. Many saw the implementation of rigorous peer review processes as key to maintaining high standards.

Rigorous peer review is important for the outcomes and status of the review process. Having peer review processes in place supports the perception of quality resources and communication of best practice. (Focus group)

Recognition

The *ascilite* findings indicate that a national repository is a valid context in which to implement a formal peer review system. Whereas an institutional or discipline-based repository may have insufficient resources for a fully implemented editorial board and ongoing review process, a national system could be expected to support such a structure. Small and local repositories, nonetheless, usually put in place some system of quality assurance. However, increasingly, with the proliferation of Web 2.0 technologies, more repositories are establishing facilities for informal peer review, i.e. incorporating commentary and annotation tools, and ratings systems.

Repositories of teaching resources and peer reviewed journals that provided important peer review and/or quality assurance models for this research included: from the USA, the repositories MERLOT (<http://www.merlot.org>) and Educause (<http://www.educause.edu/>), the Health Education Assets Library (HEAL, <http://www.healcentral.org/index.jsp>), and the journal *Nature* (<http://www.nature.com/>); the Cooperative Learning Object Exchange (CLOE) in Canada (<http://cloe.on.ca/>); the national Jorum repository in the UK (<http://www.jorum.ac.uk/>), Intute (<http://www.intute.ac.uk/>), and the *Journal of Interactive Multimedia in Education* (JIME, <http://jime.open.ac.uk/index.html>) at the Open University in the UK; and EducaNext (<http://www.educanext.org>) in Europe. The researchers also examined a number of quality assurance systems in institutional and discipline-based repositories in Australia and overseas, in addition to the Australian Universities Teaching Committee (AUTC) ICT-based Learning Designs website (<http://www.learningdesigns.uow.edu.au/index.html>), as a model of formally implemented peer review, and the LAMS Community (<http://www.lamscommunity.org>) which implements informal peer review. Criteria and standards against which the teaching resources could be evaluated were most useful for the peer review models derived from the AUTC Learning Design Project, the CLOE and MERLOT websites, and in documents from the Health Education Assets Library (HEAL 2006), the University of Queensland et al (2004), and Souza and Persily (2005).

The MERLOT repository in the USA, provides an exemplary model of formal peer review for educational resources (McMartin, 2004; Nesbit, Belfer & Vargo, 2002) on which, for example, CLOE has based its system. MERLOT has an “expertise-orientated” approach (Worthen, Sanders & Fitzpatrick, 1997), derived from traditional academic peer review practices for scholarship and publication. In addition, using the affordances of repository database technologies, peer reviews are recorded as a means of formally recognising contributors; and as resources on the repository are used, patterns of usage are tracked and made available to authors on an annual basis for the purposes of documentation, recognition and promotion.

Nesbit, Belfour and Vargo (2002) created a “convergent participation model” to evaluate learning objects, based on the MERLOT model. In a two-stage process, two individual experts firstly assess resources; next, a combined group assessment is made and the reviews from both assessments are synthesised. In this model, students are included on the panel of reviewers. The Australian ACELL project, Advancing Chemistry by Enhancing Learning in the Laboratory (<http://acell.chem.usyd.edu.au/homepage.cfm>), is an example of a discipline-based repository that also incorporates learner feedback in the peer review process. Resources on the site are not published until they have been through evaluation by staff and students.

Collaboration

Determining the standard of resources submitted for peer review places demands on reviewers, including the selection of criteria adopted to assess the items for review, the processes of moderation adopted, the time taken for the review process, and communication undertaken with authors. Referring to standard peer review of scholarly publications, Starbuck (2003) observes that “authors need to view reviewers’ comments not as judgments about the value of their work, but as good data about potential readers of their articles.” (p.344). During the peer review process there is often a hierarchy established between reviewer and author, a relationship that some suggest should be reassessed if educators are really interested in maintaining and raising standards of elearning resources. There is an argument for more collaboration between reviewers and authors throughout the review process, so that reviewers work less in judgement and more as peers in collaboration (Starbuck, 2003). Starbuck also notes that standard review processes have been shown empirically to incorporate elements of bias and randomness. A model of peer review for a repository of high quality learning and teaching resources might therefore be based on traditional methods of peer review, but modified to include more negotiation than usually expected in scholarly publication processes, in addition to informal peer review in the form of critical commentary or annotation on resources. Having more open peer review mechanisms, which could include a mix of formal and informal processes, may “increase accountability, fairness, and transparency” (Van Rooyen, Godlee, Evans, Black & Smith, 1999, p.44).

Grounded in scholarship

Feedback from participants in this research indicated that academics and educational designers wanted reward and acknowledgement for development and implementation of teaching related resources, and for it to be regarded on a par with scholarly research and publication. This same conclusion was drawn by Taylor and Richardson (2001) in their report, *Validating Scholarship in University Teaching*, research conducted into the establishment of a national system for peer review of ICT-based teaching and learning resources. Taylor and Richardson considered the conceptual and procedural basis for such a scheme and stressed the importance of focusing on the scholarship around the development of ICT-based resources. Key to the system was the “value-adding” scholarship work of academics (p.7), that is, “those aspects of scholarship . . . that both inform the design of pedagogical practices and are evident in the resources constructed on the basis of that design” (p. x). Further, they maintained that “Activities of teaching and learning are now claimed as public territory... Our position is that the benefits of peer review still outweigh a situation where ‘anything goes’, whether in the field of research or teaching” (p.53). Peer review is a means of validating and recognising the scholarship that Taylor and Richardson claim is important for the process of bringing parity between two key areas of academic endeavour. The *ascilite* research corroborates this view, as participants consistently stressed the importance of recognition and reward for their scholarly work in both teaching and research.

Reviewers

In terms of who should do the reviewing, previous Australian research (Taylor & Richardson, 2001) had suggested that reviewers should be editors of journal and conference proceedings and it would be the responsibility of these editors to advertise the national peer review scheme to be developed.

However, following the *ascilite* research, the following is recommended for the ALTC Exchange. Firstly, that reviewers be recruited from discipline groups that network around the Exchange, as in the MERLOT model. The collaborative *Peer Review of Learning Materials* Report (University of Queensland et al, 2004), suggests that staff for whom a significant part of their core business involves developing learning resources may be appropriate peer reviewers. Secondly, feedback from research participants suggested that:

- a pool of reviewers and potential review panel chairs should be identified, e.g. editors of journal and conference proceedings, ALTC Fellows and ALTC citation recipients;
- that contributors to the process should identify potential reviewers;
- that specific communities of practice be invited to act as reviewers.

MERLOT operates on a strong discipline-based system to promote contribution to the repository and to recruit peer reviewers. It utilises individuals engaged in other institutional initiatives as peer reviewers. To find peer reviewers, MERLOT adopts the following methods:

- Staff volunteer; they receive training in the peer review system and move through a series of steps before becoming a full reviewer, an associate member of the editorial board or an editor. With experience, as qualifications and quality of work is established, individuals progress up the ladder.
- Institutions nominate peer reviewers who go through a training process and prove themselves to their colleagues. As these individuals are noticed and the quality of their work is acknowledged they are asked to accept more responsibility.

Thirdly, for the ALTC Exchange, it was recommended that a group of cross-disciplinary experts should undertake the review process, namely discipline, educational and technical/media experts, plus an Editorial Chair. Not only teaching academics should be involved in the processes, but educational designers and IT personnel employed to assist with quality assurance and provide feedback on the design and potential effectiveness of any resource under review. A caution was offered that peer review should not be conducted by those in a line-management relationship. Fourthly, those practitioners and learners who have used the teaching resource could provide effective feedback on the resource in question. Finally, the Exchange should not rely solely on volunteers to manage the process. Feedback from the sector and the experience of institutional repositories suggests that the ALTC Exchange may need to employ individuals to manage peer review processes.

For formal peer review, the traditional system of “blind” peer review where reviewers are not identified, versus a system where reviewers are known was discussed with practitioners and stakeholders. Some participants favoured the latter system because of the accountability it demanded; others favoured the traditional and anonymous version because it appeared to assist with objective and democratic evaluation. Others suggested that where an author was able to engage in dialogue with the reviewers this was beneficial for developing a full understanding of the design dimensions, and intended and actual learning outcomes. In terms of authorship of *informal* peer review contributions, however, participants overwhelmingly indicated that it should be a transparent process where opinions were identified by the name of the author. The credibility of the person contributing the comments was an important factor for members considering the worth and value of others’ commentary. Further, it was thought that “named contributions” would promote scholarly, thoughtful review of resources and lessen the likelihood of work being treated insensitively.

Open peer review models

Finding a balance between quality review (particularly in informal contexts) and democratic commentary open to all members of the Exchange will be challenging. One participant suggested:

There is a need to develop models and processes for peer review alongside issues of copyright, development of acceptable use policy and innovative use of technologies that model open source, participatory and interactive knowledge creation. (Reference group)

Reference group members encouraged the ALTC to investigate new methods of peer review:

Web 2.0 has sparked a growing number of “free” and “open” movements that challenge current publishing and peer review models – including the Free and Open Source Software movements, the Open Access Movement, Open Source Journalism and Creative Commons, and they ought to be considered in the new era of publishing as each

contributes different perspectives and concerns on the emerging practices surrounding digital repositories and scholarly publishing. (Reference group)

While adopting traditional peer review methods for the assessment of ICT-based resources has its merits, some scholars have noted that traditional types of blind peer review favour tradition and not innovation (Rogers, 2006). The traditional peer review system evolved when dissemination was difficult and expensive. Some journals have tried a more open approach, and feedback from the reference groups suggested that the developing open peer review systems trialled by a number of scholarly journals such as *Nature* be examined as alternative models. The consequences of publishing to the Internet as early as possible and not waiting until a resource has been through an exhaustive quality assurance and peer review process were seen as follows:

- Speed of publication – the time taken for a resource to be made widely available is reduced; this can be compared with conference proceedings publication which are often now published to the Internet only, or Internet and CD, with no hard copy distribution;
- Early dissemination of ideas and resources – this promotes currency of the resource;
- Use of databases – these can be used to manage the submission and review processes to some degree; book publishing and conference editors are increasingly using these systems; however there is still need for strong editorial intervention to oversee the process and ensure changes recommended by reviewers are implemented;
- Facilitation of process – resources can be published to the Internet first, marked as “under review”, at the same time undergoing a peer review process in the background.

In the future the Internet may be the first place of publication, as Anderson (2007) argues, and only the very best and most enduring works will be published in hard copy. Some journals are trialling more open peer review processes: the journal *Nature* in the USA, and *JIME* in the UK are two examples. *Nature* began trialling a more open process in June 2006 (Rogers, 2006). Authors can choose a 'pre-print' option of publication called *Nature Precedings* (Nature, 2007). Once a research article has passed an initial quality check, the author posts the paper to the journal's website, and anyone, provided they give their name and email address, may comment on the research; the traditional blind peer-review process continues in the background. The traditional method of review is lengthy, and can take between four and twelve months. The open approach, where a pre-print is out in the public domain immediately the research article is completed, allows for quicker access and dissemination. Where maintaining currency of resources is an issue, as in the context of the ALTC Exchange, this is an appealing model. *Nature* warns readers to treat the findings published in *Nature Precedings* with caution as possibly preliminary or speculative, but all documents are citable (have a DOI), and are archived under a Creative Commons licence where derivatives are allowed (Nature, 2007). In terms of what is accepted for peer review, certain judgements about standards are made before release in this pre-review form, i.e. about content and authorship: submissions must be deemed to be “genuine” scientific not pseudoscientific contributions, and submitted from “qualified” scientists with “recognised academic affiliation” (Nature, 2007, paragraph 3).

Another publication model worthy of noting here is *JIME*, the *Journal of Interactive Media in Education*. As a publication it does not have a chronological concept of "issue": articles are published for open peer review as soon as they are received. Final versions of articles are published as soon as the review process is completed. Authors have the right of reply; reviewers are named and accountable for their comments, and their contribution acknowledged; and the wider research community has the chance to shape a submission before publication. Submissions are potentially critiqued by many more reviewers than is possible in a conventional review process. It is also a public rather than private process. Preference is given to signed reviews, but anonymous contributions are permitted. Authors and reviewers must be willing to engage in negotiation to determine meaning, accuracy and quality.

Whilst the open review process speeds publication, the process of soliciting informal peer review comments was seen to be less than successful in the *Nature* trial. Reaction from authors and scientists was mixed. There was considerable traffic on the site where pre-prints were posted during the trial's four month period, and though the concept was reportedly well received, few readers commented on the papers. This reluctance to provide substantive comment in general on other repository, educational, professional development or social networking sites was noted by some participants in the *ascilite* research, and this lack of willingness to engage in commentary has been observed on the ALTC Exchange in the early stages of implementation in 2008. Comments in *Scientific American* (Waldrop, 2008) pick up on this debate and the value of collaboration versus competition in pre-publication of research to scientists' own websites, blogs and wikis etc. As with participants in the ALTC Exchange

research, there are real concerns with losing competitive advantage and opening oneself up to scorn from others who disagree with the preliminary findings. Further, reading and commenting on draft research, let alone keeping up with what is already formally published, is considered time consuming. Nonetheless, the argument for early publication and wide dissemination provided by the *Nature* example, may overshadow counter arguments that informal peer review is likely to be minimal and of little real value for development.

The ALTC Exchange peer review model

The following model (Figure 1) was submitted to ALTC as a result of *ascilite's* consultation with the higher education sector and consideration of models discussed above. To date this model has not yet been adopted as the Exchange progresses through its first stages of implementation (from May 2008). The model was derived from the models created for HEAL, MERLOT and CLOE repositories, and the work of Nesbit, Belfer and Vargo, (2002). The HEAL (2006) Editorial Policy provides useful detail on roles in the peer review process, as do Barton and Waters (2004). Features recommended for formal peer review processes for the ALTC Exchange included the following: that peer review be completed within an agreed timeframe, with specific goals and outcomes and clear identification of review focus; that the reviewers be identified; and that the criteria for assessment be clearly articulated. It may also be worthwhile for each resource contributor to have tools to conduct their own self-evaluation prior to submitting their work for formal peer review (Bruce, 1997; Smith, 2005).

The major steps in the formal peer review process for the Exchange

1. The author submits a resource to the Exchange and nominates it for peer review.
2. Simultaneously, the resource may be made public, allowing for informal comment by members of the Exchange community. The resource is published and open for general review, at the same time as it is categorised as "under formal peer review".
3. A technical and quality assurance check is undertaken, assessing for quality of content and copyright issues, educational effectiveness and ease of use/usability. The Exchange Administrator or Quality Assurance Editor oversees this step.
4. After resource passes the quality check, the Editorial Board Chair is notified that the resource is awaiting review.
5. The Panel Chair convenes reviewers (probably to an online meeting). The Chair oversees the process and facilitates the discussion amongst the reviewers, and the final decision. This is communicated to the author as a numerical rating and written comments.
6. The Panel consists of subject matter specialist, education and media/information/IT specialists. Reviewers conduct and record their reviews independently. They are then convened by the Panel Chair to discuss their assessments (provided numerically and as written comments): this helps mitigate against bias by the Chair and gives a more holistic evaluation, taking into account technical, educational and discipline specific issues. The Panel Chair writes the report.
7. If any "informal" commentary on the resource has been received via the Exchange (see Step 2) the Chair and the Panel may take this into account in the final review.
8. If modifications to the resource are required, the Panel Chair may elect to discuss the result with the Author, and negotiate amendments as required.
9. Once accepted, the resource is published, marked as "Reviewed" and made available along with a summary of the reviewers' comments.
10. Members of the community may continue to comment on the final resource and give it a "star" rating to indicate its quality to others.

Conclusion

The findings of the ALTC Exchange research indicated that stakeholders and practitioners from the Australian higher education sector saw the following four elements as important for a formal peer review scheme:

- a review panel comprising a mix of experts;
- adequate funding and support for the resource intensive process of peer review;
- sustainable strategies and protocols to support and manage the process in the longer term; and
- educational effectiveness to be regarded as a key review criteria.

Recommendations in four key areas were made as a result of the ALTC Exchange research.

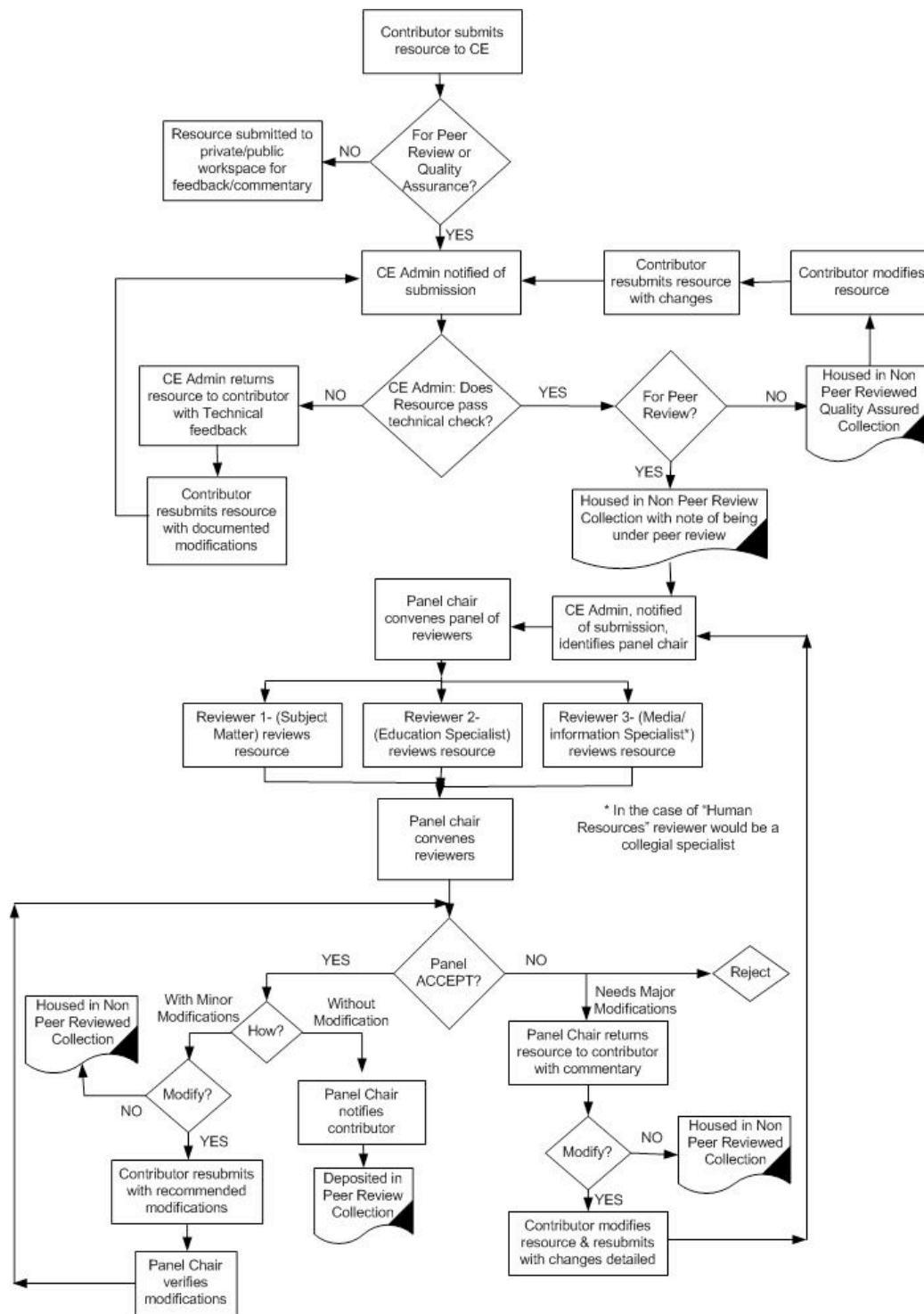


Figure 1: Formal peer review process model for resource contributions to the ALTC Exchange (= CE) (Based on MERLOT & CLOE models; Nesbit, Belfer & Vargo, 2002; & HEAL, 2006.)

1. Protocols and mechanisms related to the goals of peer review: Formal peer review policies and procedures of the Exchange should align with institutional policies and practices, and promote the scholarship of teaching and learning. The goals of formal peer review should be established and inform related policies and procedures. Peer review should enable judgements about quality and usefulness of a resource. Resources contributed to the Exchange should be classified according to the level of peer review received. Formal peer review should be appropriately resourced and adequately rewarded.

2. *Protocols and mechanisms related to the process and procedures for peer review:* The Exchange should establish processes, criteria and standards that enable consistent, equitable and fair peer review. The peer review process should meet the expectations of the sector and the needs of members.

3. *Protocols and mechanisms related to informal commentary:* Guidelines and protocols for informal commentary should be established to meet the needs and expectations of contributors and users.

4. *Protocols and mechanisms related to rewards and incentives for formal peer review and informal commentary:* The Exchange must implement rewards and incentives for participation in either formal peer review or informal commentary.

Testament to the difficulties of implementing peer review systems of evaluation of teaching and learning resources, the work of Taylor and Richardson (2001) has not been implemented nationally, and as a consequence of reallocation of resources for the ALTC Exchange, a formal peer review system has not yet been initiated. It seems that an optimum “window of opportunity” (Taylor & Richardson, 2001, p.87) to establish a peer review scheme was missed in 2001, and possibly in 2008.

Interviewees, focus group participants and reference group members consistently indicated that, to be successful, the formal peer review process should be appropriately resourced and adequately rewarded. The peer review process was seen as resource intensive, so only those resources which are of sufficient quality to warrant this assessment should be submitted for full peer review. The need for peer review processes to be integrated into other existing institutional processes was reiterated and echoes the findings of the Queensland research (University of Queensland et al, 2004).

As well as managing the peer review process, the Australian Learning and Teaching Council should make provision for a system of reward and recognition for authors and reviewers. Focus group participants strongly urged that membership of a peer reference group or formal review panel be viewed as prestigious and that peer review responsibilities valued as part of an academic’s professional development. In agreement with findings of The British Academy (Shepherd, 2007), the researchers urge those responsible for the management of universities and research institutes to encourage and reward peer review activity, as this may prevent high calibre academics, already overburdened with work, from declining peer review duties, and may encourage other academics to more readily engage in the peer review process.

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