Assessing Technology-based Projects for Promotion and Tenure in ARL Academic Libraries

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Abstract
Little is known about how technology-based projects (computer software, articles in electronic journals, Internet-based materials, videotapes and audiotapes) are reviewed for promotion and/or tenure purposes in academic libraries. Reviewers might evaluate projects with traditional criteria or attempt to revise criteria to accommodate computer-related work. To address this issue in more detail, the authors conducted a study to assess how technology-based projects are evaluated in the promotion and/or tenure process for academic librarians in Association of Research Libraries. Survey results show that, while projects, particularly World Wide Web–based materials, are being evaluated in some ARL academic libraries, little has been developed as a core set of measures or assessments for promotion and/or tenure decisions.

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Assessing Technology-based Projects for Promotion and/or Tenure in ARL Academic Libraries

Karen G. Lawson and Nancy L. Pelzer

Little is known about how technology-based projects (computer software, articles in electronic journals, Internet-based materials, videotapes and audiotapes) are reviewed for promotion and/or tenure purposes in academic libraries. Reviewers might evaluate projects with traditional criteria or attempt to revise criteria to accommodate computer-related work. To address this issue in more detail, the authors conducted a study to assess how technology-based projects are evaluated in the promotion and/or tenure process for academic librarians in Association of Research Libraries. Survey results show that, while projects, particularly World Wide Web–based materials, are being evaluated in some ARL academic libraries, little has been developed as a core set of measures or assessments for promotion and/or tenure decisions.

Changes in methods of publication and in the nature of research and its resulting products are raising difficult questions in the arena of the scholarly reward system. Several years ago, as administrators began to talk positively about technology and its benefits to the University community, efforts such as developing computer programs, writing reviews of software, and publishing in electronic journals were perceived by some in the academic world as coming into their own as legitimate forms of scholarship. By 1997, the winds on campuses appeared to have shifted and the earlier enthusiasm of scholars was being tempered by skeptical departments and committees reviewing candidates for promotion and/or tenure. The Modern Language Association’s Guidelines for Evaluating Computer-related Work in the Modern Languages specifies “recognition of contributions by faculty members” as one of the guidelines for support of computer technology and recommends that “colleges and universities should develop a written policy concerning the evaluation of electronic publications in the tenure and promotion process so that faculty members can make their decision about appropriate ways to distribute their research.” These guidelines, however, lack suggestions as to how specific kinds of computer-related activity should be evaluated within the traditional categories of professional practice, research, and service or how the traditional categories might best be revised to accommodate work with new technologies.

While technology and promotion and/or tenure are widely discussed in

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library literature as discrete topics, the
two issues are rarely covered jointly. The
use of technology on campuses and in
libraries is hardly new, but there has been
an obvious shift within the past decade.
Technology-based projects are no longer
controlled solely by an institutional “sys-
tems analyst” and are now conceived,
produced and disseminated directly by
faculty and staff. Concurrently, these
products are included by faculty and
staff in their promotional evaluation and
tenure review files. In 1992, Edward
Shreeves wrote that “Faculty often report
that, while their interest in creating and
working with electronic information
sources is keen, their mentors urge them
to produce traditional scholarship for
publication in mainstream journals if
they want to be eligible for tenure.”
A librarian, who may or may not be a fac-
culty member, can submit a technology-
based project for review for promotion
or tenure evaluation. How that project is
evaluated by the library administration,
promotional reviewer, or tenure review
committee may vary widely. The review-
ing body might evaluate the project with
traditional criteria or may attempt to re-
vise evaluation criteria to accommodate
computer-related work.

While technology and promotion
and/or tenure are widely discussed
in library literature as discrete topics,
the two issues are rarely covered
jointly.

In order to address this issue in more
detail, the authors conducted a study to
assess how technology-based projects are
evaluated in the promotion and/or tenure
process for librarians in Association of Re-
search Libraries (ARL) academic libraries.
This group of institutions was chosen be-
cause their emphasis on research and the
possible faculty status of their librarians
indicated that institutions within this
group would be facing the same set of
problems regarding the evaluation of tech-
nology-based projects as their counterparts
on college and university campuses.

Background
How are technology-based projects evalu-
ated for promotion and/or tenure in acade-
deme in general? Ernest Boyer suggests
that the scholarly reward system can be-
come more flexible and vital by acknowl-
edging that scholarship can find expres-
sion in nontraditional ways, stating that
“preparing quality computer software,
for example, is increasingly a function of
serious scholars. And even videocassette
and television offer opportunity for com-
municating ideas to nonspecialists in cre-
ative new ways.”
Martha Gilliland writes that “the tenure system is regularly
blamed for many of the perceived ills of
the university” and that “faculty mem-
bers’ notions of development … tend to
emphasize their own fields of scholarship
rather than teaching methods, the use of
technology, or greater understanding of
the needs and perceptions of constitu-
encies.” There are an increasing number of
theoretical articles that discuss the pros
and cons of “new scholarship” and offer
differing perspectives on how computer-
related work could be evaluated in the
tenure and promotion process—revision
of guidelines, creation of new guidelines
and criteria, and morphing of existing
guidelines and criteria. A small number
of studies have attempted to gain insights
about what institutions are doing to de-
velop technology-based projects, how
they are perceived in the promotion and/
or tenure process, or if and how tradi-
tional guidelines have been changed. In
a survey sent to all deans of schools of
education in the American Association of
Colleges for Teacher Education, Nancy E.
Seminoff and Shelley B. Wepner found
that while institutions do not value tech-
nology-based projects as much as tradi-
tional scholarly works, faculty and ad-
ministrators believe that technology-
based projects merit equivalent value to
textbooks and journal articles for tenure
and promotion. Most respondents to the
Seminoff and Wepner survey indicated
that their institutions had not yet estab-
lished criteria for evaluating technology-
based projects.
How are technology-based projects being evaluated in academic libraries and what rethinking, if any, is taking place regarding the place of technology-based projects in promotion and/or tenure of librarians? In 1997 Pamela S. Bradigan and Carol A. Mularski analyzed the specific criteria used by academic library directors in the tenure and promotion process, but included only journal articles and monographs as the two most common forms of publications produced by academic librarians. Joan M. Leysen and William K. Black, in a survey on peer review in Carnegie Research Libraries, asked library administrators to comment on the relative importance of contributions in electronic format in the peer review process. There have been no studies that specifically discuss if and how technology-based projects are being assessed in promotion and/or tenure decisions in ARL academic libraries, the materials used to evaluate their merit, and the criteria assigned for the assessment of technology-based projects.

Methodology
On January 4, 1999, a survey was mailed to library administrators at 109 ARL academic libraries. An e-mail reminder was sent on January 20, 1999, with a final mail reminder to non-respondents sent on February 4, 1999. The survey instrument was composed of forty-six categorical and six open-ended questions which sought to assess how technology-based projects are evaluated in the promotion and/or tenure process for librarians at these institutions. For purposes of this study, technology-based projects were defined as computer software (including CD-ROM), or the publication of articles in electronic journals, or the development of Internet-based materials (including Web pages, tutorials, or digitization), or videotapes and audiotapes. The cover letter sent with the survey included an instruction that allowed an administrator to refer the questionnaire to another person if they felt that person was more familiar with the evaluation of technology-based projects at that library. In addition to institutional information, specific inquiries were made addressing the perceived need for technology-based projects in these libraries, the actual occurrence of technology-based projects, factors that are used to determine the value of these projects, criteria that are used to determine the value of these projects in promotion and/or tenure decisions, and perceived credibility of technology-based projects in the promotion and/or tenure process. Respondents whose libraries had not experienced technology-based projects as components of librarians’ promotion and/or tenure reviews during the past three years were asked to skip a portion of the survey which focused on active assessment of these projects. Results are presented as proportional analyses using the calculation of frequencies and percentages.

Findings
Seventy-seven responses from the one hundred and nine libraries contacted yielded a total of sixty-nine usable surveys, for a final return rate of 63%. Not every respondent answered every question; therefore, frequency data are given, as necessary, in the text. Of the sixty-nine respondents, fifty-eight (91%) were Carnegie I or II institutions. Thirty-six (52%) of the responding institutions indicated that all librarians were faculty, while at four (6%) institutions some librarians were faculty and at twenty-nine institutions (42%) librarians were not faculty. In trying to assess the overall climate for scholarship requirements at ARL academic libraries, a question was posed about whether scholarly/creative activity is REQUIRED for promotion and/or tenure of librarians at their institution. Forty-two (61%) of the libraries reported “Yes.” However, in a related question which asked whether scholarly/creative activity must appear in a refereed publication, fifty-three (77%) of the libraries said “No.” Forty-four (64%)
of the sixty-nine respondents said
that technology-based projects
had been a component of promo-
tion and/or tenure reviews dur-
ing the last three years, while
twenty-five (36%) libraries indi-
cated that this was not the case.

Almost all of the group of
forty-four libraries agreed that
the reasons for creating technol-
yogy-based projects were to im-
prove library instruction or to
meet a library or university need
(see table 1). Eighty-six percent of
these respondents believed that
these projects enhanced aware-
ness of and responsiveness to
needs of constituents outside
their university. Eighty-three per-
cent of ARL academic libraries
(n=40) felt, also, that these
projects were important for pro-
viding professional recognition
to their librarians, as well as pro-
viding opportunity for research/
scholarship (78%, n=40). A higher
percentage of ARL academic li-
braries with faculty status than
those without faculty status saw
technology-based projects as an
opportunity for scholarship and
professional recognition. A some-
what lesser importance was as-
cribed to “need in the library pro-
fession,” with only 61% of forty-
one libraries indicating “yes” to
this question. Answers to the
question “Are there any other
reasons why librarians at your li-
brary create technology-based
projects?” included personal in-
terest of the developer, the fact
that some projects become com-
mercial successes for their au-
thors, an opportunity for collab-
oration with teaching faculty on
the development of technology-
based products for curricular or
research use, developing distance
learning programs, and participa-
tion in an important mode of
scholarly communication.
Table 2 shows the actual occurrence of various technology-based projects reported from the responding libraries. The projects most commonly reported as being components of promotion and/or tenure decisions were World Wide Web (WWW) subject or resource pages, tutorials or other major WWW projects. Electronic journal publications were most important to those libraries which had faculty status or that required scholarship. Other projects evaluated, according to comments received, were curricular, internal, or Internet-based. Curricular projects included a computer-based instruction module, a grant proposal to integrate technology into the curriculum, and a video-streamed instruction module. Some internal projects evaluated were local enhancements to an online system and an electronic reserves project. Internet-based activities included the creation of Web pages for professional or consortial groups, development of a Web search engine, or the creation of Web pages for professional or consortial groups.
Components Used to Evaluate Technology-based Projects

Respondents indicated that the component most used to evaluate the merit of a technology-based project was the project itself.

Other factors used frequently (about 75% of the time) were a project summary or project description (see table 3). End-user comments and peer review were considered important by 58% (n=40) and 57% (n=42) of the respondents, respectively. Print components, whether appearing in refereed or non-refereed journals, and project procedures were the least important to the respondents.

Another concrete component considered by one evaluator in response to the question "Are there any other materials that you might evaluate when making a decision about the merit of a technology-based project?" was an award given to a technology-based project. Other respondents considered word of mouth from the field and value to the national and international community.

Criteria Used to Determine the Merit of Technology-based Projects

The survey asked respondents to indicate which of seven criteria for determining the merits of technology-based projects for promotion and/or tenure were currently being used in their library.

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Over 80% of the reporting libraries (n=42) considered the creativity or uniqueness of a technology-based project and its scholarly contribution to library science to be the primary factors in assessing the merit of a project (see table 4). Local recognition and national/international recognition of the project were factors used in assessing merit in 78% (n=41) and 73% (n=41) of the respondents, respectively, while 62% also included the “logical development of ideas” (n=39). Institutions with faculty status or where scholarship was required assigned a somewhat higher value to national/international recognition of projects, while those institutions with non-faculty status assigned a higher status to local recognition. Responses to the question “Are there any other criteria that are being used to determine the merit of technology-based projects for promotion and/or tenure in your library?” indicated that the other main criterion being used is whether a project is a practical utility for meeting the needs of a targeted audience. Only one institution specifically noted a willingness to consider a contribution by a librarian in any area of scholarship, not just in library science.

In a related question, the same group of seven criteria were listed and respondents were given an opportunity to indicate...
whether, in their opinion, the criteria that SHOULD be used to assess these projects were different from those currently being used. No differences were seen in respondents’ answers to the two questions. Extensive comments were offered by respondents who had no technology-based projects to evaluate in the past three years, as well as those who had. Respondents with experience evaluating technology-based projects would look for usefulness and user-friendliness (to local users and users at other research libraries), promotion and enhancement of library services, and evidence of effective functioning (as an information medium and of broad-based access and use). The difficulty of the problem solved and willingness to experiment/take risks with technology-based projects, thereby contributing to the research mission of the University and the profession were other criteria offered by two Associate Deans. When asked if their library’s promotion and/or tenure document included specifically written criteria for technology-based projects 88% of ARL academic libraries answered “No” (n=59). However, in libraries that have faculty status or where scholarship is required, an affirmative answer was somewhat higher (17%, n=36; 19%, n=42).

Regarding Credibility of Technology-based Projects
Respondents were almost split evenly over whether they felt that technology-based projects deserved more credibility in the promotion and/or tenure process than they may currently have at their institutions: 49% answered “Yes,” while 51% said “No” (n=63).

Results were similar when broken down into Carnegie only institutions, and institutions with and without scholarship requirements. However, a sharp divergence was noted in those libraries with or without faculty status. Respondents from institutions with faculty status felt decidedly (61%, n=33) that these projects did deserve more credibility, while those institutions without faculty status felt that they did not (69%, n=26)(see figure 1). Only one respondent from each of the faculty/non-faculty categories felt that technology-based projects are already treated equally with print products in promotion and/or tenure reviews.

In a final question, tenure track institutions only were asked if technology-

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**FIGURE 1**

Do Technology-based Projects at ARL Deserve More Credibility?

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<thead>
<tr>
<th>Category</th>
<th>Yes</th>
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<tr>
<td>American Research Libraries (n=63)</td>
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<td>Carnegie Research Institutions (n=53)</td>
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<td>Non-Faculty Status (n=26)</td>
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<td>Scholarship required (n=39)</td>
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<tr>
<td>Scholarship Not Required (n=24)</td>
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</table>

Percent of Respondents
based projects alone (without accompanying traditional scholarship) would ever be sufficient evidence of scholarship for the granting of tenure. Sixty percent of the respondents felt positively that this could be the case in the future. Several added the disclaimer that “ever” was a long time and that they did not expect a change in the near future.

Discussion

Many unknowns have surrounded the issue concerning the evaluation of technology-based projects in the promotion and/or tenure process in various academic disciplines. “As candidates for jobs and promotions stock their portfolios with Internet-related accomplishments, many evaluation committees are skeptical. Behind the closed doors, committee members are asking questions that betray equal parts confusion and suspicion. Should a candidate’s Internet project count? Is it teaching, scholarship, or service? Does editing an electronic journal require the same kind of rigor as editing a print journal? Who is refereeing all this stuff, anyway?”

A respondent to our survey who answered “NO” to the question “In the last three years, have any technology-based projects that have been developed at your library been components of promotion and/or tenure reviews?” commented that “at a University library where technology plays a major role, candidates should not experience any difficulty with technology-based projects.” However, evaluators and those being evaluated at institutions where these projects have been submitted for review and are increasingly included in promotion and/or tenure files are experiencing a variety of difficulties. In an effort to explore the current climate in ARL academic libraries, we asked these institutions to identify the components and criteria used to evaluate these projects. From a group of more than forty libraries that had dealt with technology-based projects in promotion and/or tenure decisions within the last three years, we have gathered a snapshot of the process at the time of the survey. Not surprisingly, we found that the majority of technology-based projects in ARL academic libraries were initiated in response to library or university need and that the majority of these projects were Internet related. We also found that, while some of the factors for dealing with these projects in promotion and/or tenure decisions were similar to those occurring in other areas of academia, others were quite different.

ARL academic libraries with faculty status took the initiative to combine “professional recognition,” “opportunity for scholarship,” and “need in the profession” with library/university needs as reasons for creating technology-based projects to a higher degree than did non-faculty institutions, reflecting a higher probable need for scholarly activity. The level of creative thinking that may be involved in the conception and realization of technology-based projects may easily equal that of traditional scholarship. On a related issue, we found that refereed print components are used to make a decision about the merit of a technology-based project far more by librarians with faculty status than by those without faculty status, most probably because of more pressure to produce any type of refereed publication.

The survey showed that Internet-related technology dominates the types of technology-based projects appearing in promotion and/or tenure decisions within the past three years. No doubt libraries are responding to a market need for information that is in a convenient, easily accessible form. Many of these products are needed during a limited time frame and it may not be important that they remain part of a permanent record. However, this remains a problem to be resolved, as illustrated in the case of the archiving and retrieval of electronic journal articles. The fact that electronic journal articles were most important to libraries that have faculty status or that require scholarship bears out a finding from a 1997 Canadian Policy
Conference on Scholarly Communication in the Next Millennium, that the “perception among scholars that work published electronically is less legitimate from a scholarly standpoint than work published on paper in a prestigious journal is diminishing. As scholars become connected to the Internet and involved in electronic communication they see the enormous benefits to be had.” 13

Only twenty-four of the responding forty-two ARL academic libraries said that they have used peer review to evaluate the merit of technology-based project in the past three years, perhaps reflecting the lack of traditional sources for peer review of these projects. Respondents comments indicated a variety of problems with peer review: consistency of peer review procedures, not enough venues for national/international recognition, and unreliability about the peer review process in electronic journals. Many respondents from tenure-track institutions felt that peer acceptance and peer review are critical for technology-based projects if they are to be taken seriously in the promotion and/or tenure process. The American Association of the Colleges of Teacher Education has an “Innovative Use of Technology Award” program and one survey respondent would like to see “ALA/ARL sponsor a prize or two for this type of enterprise.”

The survey results indicate that the evaluation criteria used currently to determine the value of technology-based projects in ARL academic libraries is for the most part in alignment with Seminoff and Wepner’s study of deans of schools of education14. The deans and ARL academic libraries disagree about the relative value of two criteria. The criterion used most frequently by ARL academic libraries to assess the merit of technology-based projects was “exhibits uniqueness or creativity,” while the deans of the schools of education listed “uniqueness or novelty” near the bottom (number 8 of 10) of a similar list of criteria. The education deans’ third most important criteria for evaluating technology-based projects was “well-researched data collected prior to development.” This is in concurrence with the MLA “Guidelines for Evaluating Computer-related Work in the Modern Languages”15 which state that “faculty members are responsible for making a case for the value of their projects, articulating the intellectual assumptions underlying their work, and documenting their time and effort ... Faculty members should be prepared to explain what theory informs their work, why their work is useful to the discipline, and the evidence of rigor and intellectual content in their work.” Conversely, ARL academic libraries ranked “includes a thorough review of prior developments in the project’s area of research” at the bottom of their list of criteria. All other criteria in the survey of ARL academic libraries are ranked similarly to the survey of education deans. Many respondents indicated a concern that their technology-based projects would have more credibility only when the projects of teaching faculty had more. Comments from respondents indicated that this is even a greater issue for librarians whose promotion and/or tenure files are reviewed by university committees or administrators.

Conclusions
It is clear that there is an additional burden involved for librarians who produce technology-based projects and include them in promotion and/or tenure files. Because review committees and administrators currently lack a depth of experience in evaluating these projects, the author must take the initiative in providing as much documentation of the project as possible. The concept that the “documentation of any faculty work should stress two dimensions (1) the quality of the work and (2) the significance of the work. In many instances faculty provide promotion and/or tenure committees with detailed information as to the quality of the effort; however, they do not present a case for the value of their work, describing its impact or explaining in
what ways and for whom this work has significance is doubly important if a technology-based project is up for review. Submission of documentation that shows that projects have received internal or external funding, have earned an award or other professional recognition, and reviews and citations of work either in print or in electronic journals are all useful.

Inclusion of evaluation processes for technology-based projects should be incorporated into existing library guidelines for promotion and/or tenure reviews. If an institution believes that technology-based work, like other forms of scholarship, teaching, and service, should be evaluated as an integral part of a faculty member’s accomplishments, language related to teaching, scholarly/creative activities, and professional service throughout the guidelines should also refer to computer-related work. “When an archeologist uses a Computer-Aided design program to reconstruct a site, or a rhetorician moderates a four-month discussion online, or an historian collaborates with 120 colleagues to produce a polylog, departments and tenure/promotion committees will need to know how to evaluate those efforts.”

Certified peer review is still an important factor for a successful review in academe, and academic librarians who must face university-wide review for promotion and/or tenure must pay special attention to this criterion. “Whether the current form of peer review remains in place for long is of importance only inasmuch as it remains a viable measure of the life of the scholarly community. It is widely agreed that the current scholarly communication system of editorial boards, reviewers, and publishers will continue in place for at least another decade and probably much longer. Although the number and variety of scholarly publications that are exclusively electronic has grown tremendously since the 1980s, there has not yet been the kind of fundamental change that would spell the end of the current regime and the start of the new regime. Rather, there is a gradual transformation. As more scholars establish their own communication networks and the credibility of the work being disseminated grows, the efficacy of this new means of communication will become evident and attractive.” It is also incumbent on administrators to make review committees understand whether or not these projects are valued at their institution.

Library evaluators seem prepared to take more risks and step outside traditional guidelines when evaluating technology-based projects when compared with their counterparts in other areas of academe. They are willing to assess the content as well as the container. Along with Janice Walker, they are finding that “we are left with three choices: first, make our electronic work somehow “fit” into existing guidelines and be able to justify it along traditional lines; second, do what we’re doing now and not have it count for purposes of tenure and promotion; or, third, change the definitions of what is ‘valued’ to fit what we’re doing.” The respondents to the survey felt that there will be a “general change to recognize electronic scholarly activity,” and that an increase in the credibility of technology-based projects “will be inevitable as [they] will become increasingly the norm as the WWW is used for services and instruction as well as access tools.” “The effort to broaden the meaning of scholarship simply cannot succeed until the academy has clear standards for evaluating this wider range of scholarly work. After all, administrators and professors accord full academic value only to work they can confidently judge.”

The results of our survey show that ARL academic librarians recognize that technology-based projects are valuable and should be seriously considered in promotion and/or tenure reviews, but...
that there has been little initiative to regularize its consideration and evaluation. A question in the survey asked tenure-track institutions “In your opinion, will technology-based projects alone (without traditional scholarship) ever be sufficient evidence of scholarship for the granting of tenure?” The majority of respondents replied “yes,” but always with a caveat. Comments offered were generally of this type: “Yes, but depends greatly on substance, quality and peer acceptance,” “Yes, if there is strong and effective documentation of use and value in the academic community of the specific projects,” and “Yes, I would not confuse the medium with the content. It is the content of the project that should be evaluated.” It is apparent that, although the environment is dynamic and constantly evolving, there is a need for a core set of measures and assessment techniques that evaluate technology-based projects. Academic librarians can look at the evaluation criteria and guidelines used by other academic institutions and other disciplines in the consideration of technology-based projects and compare them with their own organization’s evaluation processes. Academic librarians can play an important role in addressing the serious questions about technology-based projects that are before us.

Notes

18. Field, “Faculty Perspective,” 165.