

Scaling the Peer Review Process

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MERLOT Metrics



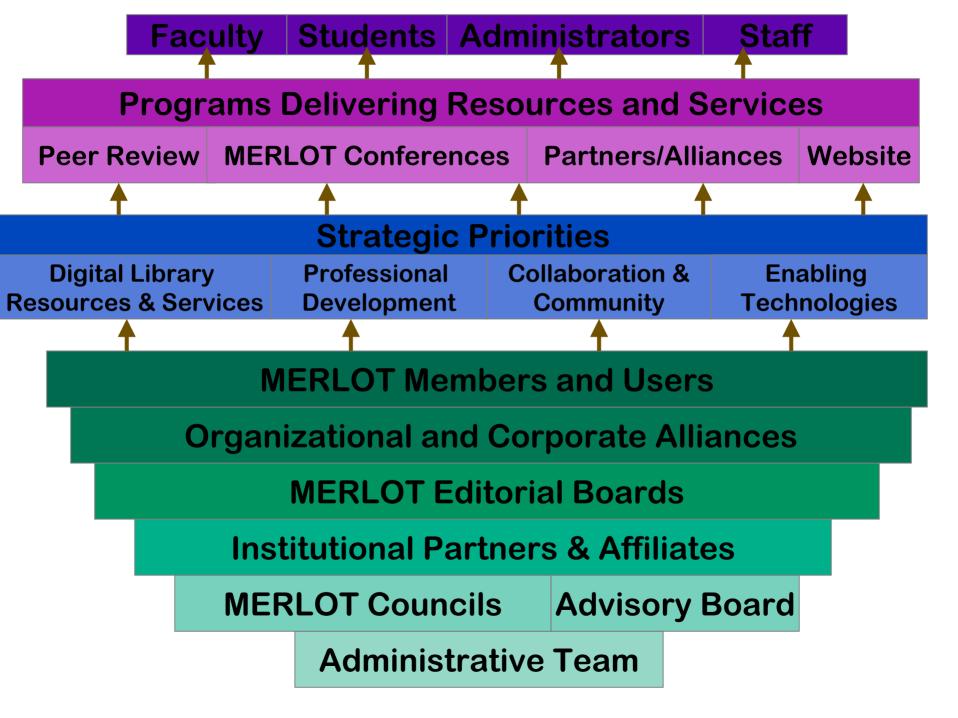
USAGE	Dec 2001	Dec 2002	July 2003
Hits per month	710,216	1,310,526	1,512,463
Average # of Unique Users/month	9,579	13,985	15,216
Average # of Users/month	N/A	18,742	21,643
COLLECTION			
# of Materials-With Editorial Boards	5,638	7,440	8,301
# of Materials- W/out Editorial Boards	1,119	1,397	1,286*
# of Peer Reviews	296	789	987
# of Materials with Member Comments	1,485	1,904	1,855*
# of Personal Collections	N/A	N/A	351

^{* =} Significant curation of collection to less than 1% dead links

MERLOT's People Metrics TMERLOT



MEMBERSHIP	Dec 2001	Dec 2002	July 2003
Students	959	1,994	2,569
Faculty	3,774	6,621	8,965
Staff	1,003	1,677	2,107
Other	651	1,069	1,428
TOTAL # of	6,387	11,561	15,069
Members			30% Increase
			in 7 months



Supporting Faculty Preparing Curriculum



Enabling Technologies & Digital Library Services

- Searching to find more resources faster
 - Federated Searching
 - Software tuning
- Evaluating more resources more reliably
 - Peer Reviewer Tutorial
- Organizing your chosen resources more personally
 - Personal Collections
- Integrating MERLOT services into your website
 - RSS: Really Simply Summaries/Reliable Syndication Service

MERLOT's Organizational Partners and Affiliates



Digital Library Services	Activity
Education.au Limited	Federated Search
SMETE.org	
American Assoc of Physics Teachers	
NEEDS (Engineering)	Peer Review
HEAL (Heal Science)	
CAUSE (Statistics)	
Journal of Chemical Education*	
Professional Development	
New Media Consortium	Professional
NLII/EDUCAUSE	Development
POD*	
Enabling Technologies	
IMS (Affiliate)	Standards
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NSDL Proposal - Year 2000

Framework For Maturing the Peer Review Process

ACTIVITY	PEOPLE
Form review teams Train review teams	CSU-CDL and the States
Develop standards	CSU-CDL, the States, and Faculty Teams
Produce reviews	Faculty Review Teams
Assess review process	CUDA
Host peer reviews on MERLOT	CSU-CDL

ACTIVITY	PEOPLE
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ACTIVITY	PEOPLE
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Host peer reviews on MERLOT	CSU-CDL

PHASE I:

CSU-CDL and state instutions of higher education manage the peer review process

PHASE II:

MERLOT collaborates to transition the peer review process to professional organizations

PHASE III:

Professional orgs.
lead and manage
peer review process.
CSU and CUDA
support

Scaling Peer Review



Key Components of MERLOT's Process

- Evaluation Standards
- Management of Peer Review Process
- Recruitment of Reviewers
- Training of Reviewers
- Assessing Reviews
- Hosting Reviews

Each component process has matured to become more scalable.

Evaluation Standards: Maturing MERLOT from Concepts to Practice

- 1999 Published principles
- 2000 Operationalized into criteria by Editorial Boards
- 2001 Evaluation standards put into practice
- 2002 Content analysis of published reviews to evaluate reliability, emerging best practices, and validity of peer review reports
- 2003 Revised principles for content and format of evaluation standards to improve reliability and validity of peer reviews reports

Managing Peer Review Requires Tools



- 2000 Editors use personal spreadsheets to track:
 - Materials reviewed
 - Stage of review
 - Assignment of reviewers
- 2001 Recognized problems of not sharing tools
- 2002 MERLOT deployed Peer Review Management Tool (PRMT Workspace)
- 2003 Version 2.0 of PRMT to be deployed with improved tracking, managing, and reporting capabilities

Recruiting and Sponsoring Reviewers



- 2000 Institutional Partners each sponsored 6-8 faculty to be peer reviewers on discipline teams
- 2001 Presentations to professional societies recruited interested faculty volunteers to add to discipline teams
- 2002 Formal alliances with professional societies begin with plans to coordinate recognition of volunteer reviewers on Editorial Boards
- 2003 Establish hierarchy within Editorial Boards
 - Editor, Associate Editors: Sponsored by Institutional Partners
 - Assistant Editors and Peer Reviewers: Volunteers managed by Editor/Associate Editor

Training to Produce Integrity in Peer Reviews



- 2000 Face-to-face training on defining and applying evaluation standards and writing peer review reports. Listservs, threaded discussions, and community site used to support learning
- 2001 Mentoring added to face-to-face training and e-communications
- 2002 Monthly conference calls added to faceto-face training, e-communications, mentoring
- 2003 Tutorial prototyped to provide initial training for defining, learning and practicing writing quality peer review reports

Evaluation and Hosting MERLOT



- CSU Long Beach Center for Usability in Design and Assessment (CUDA) continues to provide evaluation services
- www.merlot.org continues to host the peer review reports and peer review management tool.
- Complementary evaluation methods
 - Member Comments
 - Citation Index in Personal Collections