

REPORT ON THE

INTERNATIONAL CONFERENCE ON DIGITAL LIBRARY MANAGEMENT (ICDLM)

***THEME: 'EXTENDING BENEFITS OF MODERN TECHNOLOGY TO PUBLIC,
ACADEMIC, AND SPECIAL LIBRARIES'***

11-13 JANUARY 2011, SCIENCE CITY, KOLKATA



Jointly Organized

by



**THE ENERGY AND RESOURCES INSTITUTE (TERI)
DARBARI SETH BLOCK
IHC COMPLEX, LODHI ROAD
NEW DELHI – 110 003**

and



**RAJA RAMMOHUN ROY LIBRARY FOUNDATION
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**REPORT ON THE
INTERNATIONAL CONFERENCE ON DIGITAL LIBRARY
MANAGEMENT (ICDLM) 2011**

INTRODUCTION

The International Conference on Digital Library Management (ICDLM) 2011 was held from 11-13 January 2011 at Science City Auditorium, Kolkata. The Conference was jointly organized by The Energy and Resources Institute (TERI) and Raja Rammohun Roy Library Foundation (RRRLF). This prestigious event was inaugurated by Prof. Tapan Raychoudhury, Former Professor and Director of Delhi, School of Economics, Delhi University. Shri K K Banerjee, Director, RRRLF and co-organizer welcomed the participants and introduced ICDLM 2011, followed by an address by Shri Ardhendu Sen, Distinguished Fellow, TERI and former Chief Secretary, Govt of West Bengal on 11 January 2011. The inaugural address was delivered by the Chief Guest Prof. Tapan Raychoudhury, Former Professor and Director of Delhi, School of Economics, Delhi University. The vote of thanks was proposed by Shri Shahid Hasan, Associate Director, Knowledge Management Division, TERI. A conference proceeding was also released during the inaugural session.

BACKGROUND

2. The information era with its electronic facilities will come with many challenges in all the sectors of development since information is the base for all developmental activities. Libraries and information centres and librarians will have their share of challenges and risks to partake in this major activity. To bring about this change India will need to have a vision for the 3rd millennium and each sector will have to adopt the latest developments in information technology. This includes change in the functions of the library to make it service oriented rather than collection building oriented; preservation and access may be considered as vital; marketing of information and library service development of library professionals to cope with new environment and to deal with the management techniques for dealing with the new objectives and prepare a national policy for libraries and information centres keeping in mind the needs of the different sectors within the field of Indian librarianship.

3. The Information and Communication Technology (ICT) revolution and the advent of the Internet has had drastic and far-reaching impacts on the knowledge and information sector and added a new dimension to information retrieval platforms. A fierce competition has been triggered amongst modern libraries, publishers, database providers and the Internet in terms of global information access. This has resulted in the creation and maintenance of a web based platform information delivery mechanism in which a large volume of information in the form of electronic documents can be transmitted. This apart, the situation has been made far more challenging with growing users demand for seamless value added information access and integrated search requirements. In order to address these issues as also to emphasize the archival value and easy access to already existing printed documents, the concepts of Digital Libraries (DLs), knowledge management, e-learning and archiving of indigenous culture and heritage were conceived and implemented.

4. DLs adopt the latest ICT tools and techniques which have the capability of integrating nation wide DLs on a single platform to promote greater knowledge access amongst policy makers, organization's top management, libraries and the users. DLs has become a critical component of global information infrastructure as they facilitate rapid flow of information thereby bridging the digital divide and thus provide uninterrupted organized information access to users of all sectors in multiple languages. Also, the search time for information retrieval is drastically reduced, as the information is organized, structured, and easily accessible.

5. **Public Library System in India**

Public libraries arose worldwide along with growth in education, literacy, and publications. Every country has its own public library history with influential leaders. Monarchs, wealthy people, and philanthropists have all made a contribution to society in the form of public library development. India is no exception. Libraries were established in ancient India mainly by the patronage extended by emperors, major capitalists, and scholars.

6. The Public library system in India has developed over the years for more than a century, initially under the patronage of the aristocracy. However, the new independent India which developed a democratic society, recognized the need for public libraries which will work for the common good and will build a strong foundation for a democratic set up. According to the Constitution of India, Public library development is a State responsibility. Therefore, all states are vested with the mandate to set up libraries within the state at different levels. But due to the diversity in the level of state-wise

development, the Department of Culture, Government of India has set up Raja Rammohun Roy Library Foundation (RRRLF) to act as a nodal agency for development of public libraries in India.

7. Though library legislation is almost a pre-requisite, all the Indian states have not yet passed the library legislation. Therefore, RRRLF is also working towards a model Public Library Bill which may be able to encompass all the facets needed for development of public libraries to suit the new changing environment. Moreover, in the rural sector the local governments have been made responsible and accountable for the development of public library facilities through new constitutional amendments. Also, the Central Government is taking well-considered steps to make dissemination of information the main activity in all sectors which deal with rural and social development. The 3rd millennium will see a drastic change which will ensure cooperation and collaborative efforts between the information generating agencies (whether government or NGOs) and the libraries and the information dissemination sector. The government is seriously considering to bring about conceptual change in the rural library sector by coordinating its activities along with the continuing education schemes of the National Literacy Mission (NLM).

8. The RRRLF has also been given the responsibility of resource mobilization for modernization of the state and district central libraries, the development of infrastructure and training of personnel. The Department of Culture through the Central Secretariat Library (CSL) has laid down standards for library development software and networking as well as for bibliographic description to ensure standardization both in infrastructural development as well as retro-conversion of library catalogue in machine readable format.

9. **TERI's contribution to the DL Movement**

TERI has contributed to the DL movement by organizing three mega International Conferences on Digital Libraries (DLs) in 2004, 2006 and 2010 respectively. The theme of the first ICDL held in 2004 was *'Knowledge Creation, Presentation, Access and Management'*. It was inaugurated by the then Hon'ble President of India Dr. APJ Abdul Kalam. A roadmap for digitization of manuscripts and libraries was also prepared as a follow-up activity and submitted to the Ministry of Culture, Government of India. The theme of the second ICDL held in 2006 was *'Information Management for Global Access'*. A final report on the conference was also submitted to the Ministry of Culture, Government of India. The third conference was held on 23-26 February, 2010. The theme of the conference was *"Digital Libraries: Shaping the Information Paradigm"*. During this four days deliberation, lot of contemporary issues are addressed at length which came in

the form of a recommendation report. This report has been submitted to the Ministry of Culture, Government of India. All these three conferences were very well attended and hundreds of people from across the globe gathered together on a single platform and shared their experiences.

10. In addition to this, TERI also conducts seminars and workshops on DLs for library and information professionals on regular basis since 2000. These seminars and workshops have received overwhelmed response.

11. TERI is also regularly publishing 'World Digital Libraries', a bi-annual journal, to generate awareness at the global level with special reference to India. However, TERI believes that this is only the beginning of a new era of capacity building in e-learning, digital library and knowledge management fields. Realizing that there is a growing demand for skilled professionals in libraries for successful development and maintenance of DLs at the institutional level, TERI intends to organize the International Conference on Digital Library management (ICDLM) from 11-13 January, 2011, to foster knowledge development among the library professionals.

CONDUCT OF THE CONFERENCE

Conference Theme

12. The theme of ICDLM 2011 was "Extending benefits of modern technology to public, academic and special libraries". The conference aimed at addressing some of the contemporary issues such as:-

- (a) Be a single platform for international and national experts, researchers, academics, and students to share and discuss advanced thoughts and experiences.
- (b) Focus on the creation, adoption, implementation, and utilization of DLs and their future implications towards shaping the information paradigms.
- (c) To promote and sensitize the public library to initiate digitization programme in the country
- (d) Networking and collaboration of all the public libraries in India and abroad.
- (e) Capacity building programme for the public library and information professionals to enhance their competency.

13. The conference provided an international forum for sharing of experiences among researchers, educators, practitioners, and policy makers from a variety of disciplines such as library and

information science and technology, archival and museum studies, knowledge management and many areas in the fields of social sciences and humanities.

Organization

14. A number of committees viz. Advisory Committee, Steering Committee, International Programme Committee, National Programme Committee and an Organizing Committee were constituted for the purpose of guiding, preparing for and conducting the conference. The details of these committees is given in **Appendix 'A'**.

Preparation

15. Preparations for the conference commenced in April 2010. The National Programme Committee approved the structure to be adopted for the conference in the form of keynote addresses, technical sessions, panel discussions, poster presentations, product presentations, and exhibitions.

Programme

16. The conference was conducted from 11-13 January 2011. The details of the conference programme are attached as **Appendix 'B'**.

Participation Fee

17. The participation fee for the conference was under:

(a) For registration done on or before 30 November 2010

Delegates

India & SAARC countries Rs 3309/-

Other Countries \$ 125/-

(b) For registration done after 30 November 2010

Delegates

India & SAARC countries Rs 3860/-

Other Countries \$ 150/-

Participation

18. The conference had 27 invited speakers from 11 countries including India and 375 participants including 244 registered participants which included more than 24 foreign participants from 14 countries from Asia, Africa, Europe, the United States of America, and Australia.

Inaugural Session

19. Welcome Address by Shri K K Banerjee: The conference was inaugurated on 11 January 2011. On behalf of RRRLF and TERI, he welcomed the participants and other internal dignitaries in the city of rich cultural diversity—Kolkata. He mentioned that RRRLF was established in 1972 and functions as a promotional agency for the development of public libraries in India. So it has assisted 32,000 public libraries. He mentioned about TERI and its contribution for the development of digital libraries. He pointed that the present conference is organized with the objective of identifying digital application in public libraries. He concluded his address by welcoming the delegates and Professor Tapan Roy Choudhuri, Former Professor and Director of Delhi School of Economics, Delhi and Mr. Ardhendu Sen, Distinguished Fellow, TERI, New Delhi. At the outset, he also thanked Shri Jawhar Sircar, Secretary, Ministry of Culture and Dr (Ms) Tuk Tuk Kumar, Joint Secretary, Ministry of Culture for their valuable guidance and suggestions given time to time.

20. Address by Shri Ardhendu Sen: Shri Ardhendu Sen started his address by saying that an International Conference on Digital Libraries management is perhaps organized for the first time in this part of the country. He mentioned that he is a regular visitor of Internet and observed that a massive volume of information is available there. WWW is itself a library and the search engines are themselves a librarian. A digital library requires a lot of hard work for collecting, cataloguing and organizing information. The growth of digital libraries is a proof of its development. He drew attention of the listeners about a news item that National Library and British council has come to an agreement about digitizing Bengali collection available at British Council. Regarding the notion that digital libraries would replace the book collection, he categorically said that he does not agree to it because still a majority of community rely or depend on printed sources. He further pointed out that digital libraries face a number of problems. He advised that in selection of information, format for their preservation to be chosen carefully. There are questions of regulations and law too. He mentioned that there was a time when we used to go to library and in request for a document, it was to pass through so many stages and finally, it may happen that the document is not available. Similar things happen in network also. We hop from one URL to another, and the result is denial. He said that as users we expect more now a days. He concluded his address by mentioning role of TERI in digital libraries development.

21. Inaugural address by Prof. Tapan Raychoudhury: Prof. Tapan Raychoudhury first of all released the conference volume. In his address as Chief Guest of the Conference started his address

by saying that he is conversant with the work of libraries. He pointed out that there are two distinct features of librarianship— material preservation and moral preservation. He also mentioned that he can access knowledge in few seconds now. He pointed that scholarship is lone activity whereas technology is joint activity. He further elaborated by saying that Raja Ram Mohun wanted the country to be western cultured. What could be more westernized than adopting technology? He suggested that as users to make effective use of technology, users' need certain amount of training. He suggested that some libraries with a good collection and are destroyed are to be rough under digital technology. He cited the examples of Radha Kanto Dev Library, Bangiya Sahitya Parishad library and Uttarpara library. He is of the opinion that wonderful invention can preserve the cultural past. In mentioning the problem of digital library, he mentioned that in card index a lot of other things of much interest is available. Further when one goes to the shelf in addition to the book he is looking for he can glance other books which may be of his interest. Having said that he pointed out that the technology has provided enormous speed. In digital libraries a large amount of information can be accessed within few seconds. In discussing the problem of coping with irrelevant knowledge he advised that it should be solved by attitudinal thought not technological, He suggested that the government should try bringing information about knowledge. The word information is used too often. Knowledge is a component of information. Knowledge is deep thinking.

22. He concluded by saying that we must not forget the demand of old fashioned knowledge

23. Vote of thanks: Mr Shahid Hasan, Associate Director TERI summed up the talk given by earlier speakers. He proposed a vote of thanks to them. He thanked Mr. Jawhar Sircar, Secretary Dept Culture for his guidance, interest and inspiration for holding this event. He also thanked Mr K.K.Banerjee and his team, the colleagues of TERI for their untiring effort for making the conference successful. He paid his gratitude to the DST, CSIR, and other sponsors, representatives of the media for supporting the conference.

Keynote addresses

24. Two Keynote addresses were delivered on the 12 and 13 January, 2011 respectively.

25. First Keynote Address: The first keynote address on 'Capturing and Experiencing Cultural Heritage in Digital Form' was delivered by Dr P Anandan, Managing Director, Microsoft Research India on 12 January, 2011. Dr Anandan initiated his talk by defining heritage as art, music,

monuments etc. He discussed about how they are captured. He mentioned the characteristics of digital heritage. He also defined cultural heritage as stories behind monuments.

26. The focus of his talk was on 3D capture of monuments. 3D monuments often occupy large space and hard to capture in the picture. He mentioned that earlier the 3D capture was done using laser scanning (e.g., Bayon Digital Archival Project), which is time consuming. To obviate some of the problems of laser technology, Photo Tourism, developed by Microsoft is followed. He discussed in detail a particular model—Cloud Point. He provided an overview of Photo Tourism process. Based on the technology, Micro Soft has created Photosynth . He gave a live demo for it). In discussing to capture the stories he mentioned that the two can be mixed together. He mentioned that work for developing a platform from the pilot is in progress where web based browser will be launched. It will have potentiality to have Wiki model. He finally discussed about the Indian Digital Heritage Project, the work for which is in progress.

27. Second Keynote Address: The second keynote address was given by Prof N Balakrishnan, Associate Director, Indian Institute of Science, India on 13 January 2011.

28. He describes the success stories of the universal digital library and Digital library of India.

Technical sessions

29. Invited speakers: A total of 27 papers were presented by invited speakers during the conference. The details of invited speakers and papers presented by them are given in **Appendix 'C'**.

30. Contributed Papers: The call for papers was sent in July 2010 and the last date for submission of these papers was 20 October 2010. A total of 125 papers/abstracts were received. These papers were reviewed by members of the national and international programme committee and a total of 35 papers were short-listed for presentation during the conference. The details of the papers short-listed for presentation during the conference are given in **Appendix 'D'**. A Paper Award Committee was also constituted to confer three best poster presentation..

31. A total of 12 technical sessions were held on 12 and 13 January, 2011. A summary of the discussions during the technical sessions is given in **Appendix 'E'**

Panel Discussions

32. The panel discussion was held on 'DL Strategy, Network, Policy and Public Library' on 13 January 2011.

Poster Presentations

33. The poster presentations were held on 12-13 January 21011. The entries for the poster presentations were reviewed by members of the National and International Programme Committee and 40 presentations were finally short-listed. A Poster Award Committee was also constituted to confer three best poster awards. The details of short-listed posters presented are attached as **Appendix 'F'**.

Product Presentations

34. The product presentations were held on 12 and 13 January, 2011. A total of 5 publishers and vendors made product presentations.

Valedictory Session

35. Conference summing up: Prof S B Ghosh, Professor Emeritus, IGNOU gave an overview of three days proceedings of the ICDLM 2011. He mentioned that the conference received an overwhelming response, nearly 375 delegates from 11 countries. The conference had two keynote addresses, twenty four invited talks, twelve technical sessions, forty two contributed papers and forty poster presentations, one panel discussion, cultural programme, exhibition, and product presentation. The conference witnessed discussions on a plethora of themes and topics by eminent experts sourced together from across the globe.

36. Recommendations: Dr S M Dhawan, Library Consultant and former Librarian and Scientist, National Physical Laboratory presented the recommendations attached as **Appendix 'G'** which were evolved after detailed deliberations in the sessions and panel discussions. While presenting the recommendations, he highlighted the pertinent issues which the DL community should endeavour to aim at viz:-

37. Valedictory address: Dr Suranjan Das, Vice-Chancellor, Kolkata University has given valedictory address.

38. Presidential address: Shri Jawhar Sircar, Secretary, Ministry of Culture, Government of India has given the valedictory address.

39. Vote of thanks: The session ended with a vote of thanks by Shri K K Banerjee, Director, RRRLF and Dr Debal C Kar, Fellow, TERI.

PARTNERS, SPONSORS AND EXHIBITORS

Associates

40. The Ministry of Culture, Government of India and Raja Rammohun Roy Library Foundation (RRRLF) were Associates of the Conference.

Other Institutional Sponsors

41. The Department of Information Technology (DIT), Ministry of Communications and Information Technology (MCIT), Government of India, Council of Scientific and Industrial Research (CSIR) and Department of Science & Technology (DST) were the other institutions and autonomous bodies that supported the event.

Sponsors

42. The conference was sponsored by Informatics (India) Ltd, Nature Publishing Group, Taylor & Francis Group, Cambridge University Press, EBSCO Publishing, LibSys Emerald Group Publishing Ltd., SAGE Publications India Pvt. Ltd., Oxford University Press, Elsevier and Tausco Subscription Agency Pvt. Ltd.

Exhibitors

43. A total of 11 exhibitors, besides TERI set up stalls during the conference to showcase various digital products and services offered by leading publishers of the world.

DOCUMENTATION

44. Conference Proceeding : A conference proceeding and a programme guide both in printed and electronic form were given to all participants at the time of registration.

CONCLUSION

45. The ICDLM 2011 has generated great enthusiasm amongst the library and information science and technology professionals around the world. It has created great awareness on the importance of digitization in the DL community both in India and abroad. The Conference has, on the whole, facilitated the bridging of knowledge gaps between developing and developed countries; initiated capacity building activities in DLs; provided a forum for facilitating useful interaction amongst information science and technology professionals; and most important of all, facilitated the formulation of recommendations on digitization technologies, Acts, and policies in India. It has also helped in getting together about 375 professionals, experts, digital library workers, and information providers, from across the globe on a single platform and encouraged the sharing of experiences, concerns, and ideas.

46. The conference hosted an exhibition of distinguished publishers, software companies, and online service providers from India and abroad who presented the latest technological developments, online services and e-journal initiatives throughout the world.

47. The conference also boosted the enthusiasm among the government as well as library and information science and technology professionals of the importance of the DL system. It also brought out the present status and the latest developments and techniques in this field all over the world. To understand the basics of digital preservation tools and techniques, several private and government organizations have already initiated action towards the future preservation of their documents and have approached TERI for inputs and assistance. Ministry of Culture has started the digitization of the cultural heritage of India.

DETAILS OF COMMITTEES

CONFERENCE CO-CHAIRS

Mr Jawhar Sircar

Secretary
Ministry of Culture, Government of India
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Director General
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Dr Debal C Kar

Fellow
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Prof P B Mangla

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Member
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International Conference on Digital Library Management (ICDLM 2011)

Theme: *Extending Benefits of Modern Technology to Public, Academic and Special Libraries*

Kolkata, 11-13 January, 2011

Science City Mini Auditorium, Kolkata

PROGRAMME

Tuesday, January 11, 2011 (Day 1): Inauguration	
2:00 pm – 5:00 pm	Registration
5:00 pm– 6:00 pm	05.00 -6.00 pm Conference Inauguration (Mini Auditorium, Science City, Kolkata)
	05.00 – 05.10 pm <i>Welcome address</i> by Mr K K Banerjee Director, RRRLF, Kolkata
	05.10 – 05.25 pm <i>Address</i> by Mr Ardhendu Sen, IAS Distinguish Fellow, TERI, New Delhi and former Chief Secretary, Govt of West Bengal
	05.25 – 05.30 pm Release of the Conference Proceedings
	05.30 – 05.50 pm <i>Inaugural address by Chief Guest:</i> Prof. Tapan Raychoudhury Former Professor and Director of Delhi School of Economics, Delhi University
6:00 pm	05.50 – 06.00 pm <i>Vote of Thanks</i> by Shahid Hasan Associate Director, TERI, New Delhi
	06.00pm Inauguration of Exhibition
6:00 pm	Tea

Wednesday, January 12, 2011 (Day 2): Technical Sessions

8:00am – 4:00pm	Registration		
9:00am–10:00am	<p align="center">Plenary session: Keynote (Mini Auditorium, Science City, Kolkata)</p> <p align="center">Chair: Col. A K Nath, Director, C-DAC, Kolkata</p> <p align="center">Speaker: Dr P Anandan Managing Director, Microsoft Research India</p>		
10:00am–10:30am	Morning Tea		
10:30am–12:00pm	<p>Session 1A: Mini Auditorium</p> <p><i>Digital library initiatives of public libraries</i></p> <p><i>Chair:</i> P B Mangla Prof Emeritus, University of Delhi</p> <p>Invited Speakers (25 minutes):</p> <p>1. Kalpana Dasgupta 'Need for digitization and developing digital collections in Public Libraries in India'</p> <p>2. K K Banerjee Raja Rammohun Roy Library Foundation and its initiatives</p> <p>Contributory papers (10 minutes)</p> <p>1. Inder Sain Digital Library Initiatives by Department of Information Technology, Government of India'</p> <p>2. Naser Ezzati Jivan, Hushang Tavakoli, Parisa Pasyar and</p>	<p>Session 1B:CV Raman Hall (S18)</p> <p><i>Virtual learning</i></p> <p><i>Chair:</i> S B Ghosh, Prof. Emeritus IGNOU, New Delhi</p> <p>Invited Speakers (25 minutes):</p> <p>1. Elena Maceviciute (Sweden) 'Education for digital libraries: library management perspective'</p> <p>2. Gobinda Chowdhury (Australia) 'Why e-books are not common in academic and research libraries even after rigorous research for nearly twenty years?'</p> <p>3. A R D Prasad (India) 'Liblivedc'</p>	<p>Session 1C: SN Bose Hall (S-19)</p> <p><i>Digital library services</i></p> <p><i>Chair:</i> Swapan Chakraborty, Director, National Library, Kolkata</p> <p>Invited Speakers (25 minutes):</p> <p>1. Anjana Chattopadyaya Delhi Public Library System and Digital Initiatives</p> <p>2. P K Bhattacharya 'Knowledge management: A TERI case study'</p> <p>Contributory papers (10 minutes):</p> <p>1. Divakara Bhat and Ashok Kumar 'Digital library service: feasibility study of a cloud based service as compared to a LAN based service'</p> <p>2. Tanmay De Sarkar and</p>

	<p>Reza Shahrabi Farahani (Iran) ‘HARAM: Moving toward formation of a national digital library in Iran’</p> <p>3. P.K.Jain, Parveen Babbar, Geeta Paliwal, and Shikha Rani ‘Digital libraries in India: problems and prospects’</p>		<p style="text-align: right;">Appendix ‘B’ (Contd....)</p> <p>Nimai Shit ‘Application of blog in improving library services – A study in an international perspective’</p> <p>3. Mohammed Nasser AL-Suqri Khalsa Al-Hinai and Kawther Mohammed Al-Hashmi (Oman) ‘Towards Arab digital libraries: Opportunities, challenges, and requirements’</p>
12:00pm-1:00pm	<p>Business Session and Product Presentation (Mini Auditorium, Science City, Kolkata)</p> <ol style="list-style-type: none"> 1. Chris Bennett, Oxford University Press 2. Neeti Verma, Taylor & Francis Group 3. Piyush Gupta and Debapriya Mukherjee, Emerald Group Publishing 		
12:00pm-1:00pm	<p>Poster session Ground Floor, Seminar Hall</p>		
01:00pm – 1:45pm	<p>Lunch</p>		
1:45pm – 3:15pm	<p>Session 2A:Mini Auditorium</p> <p><i>DL standards and policy for Public library</i></p> <p><i>Chair:</i> S M Dhawan, Former Librarian, National Physical Laboratory, New Delhi</p> <p>Invited Speakers (25 minutes):</p> <ol style="list-style-type: none"> 1. Subbiah Arunachalam ‘Making Libraries Inclusive: Using Technology to Reach Out to People’ 2. Erik Thorlund Jepsen (Denmark) ‘From classical to digital public 	<p>Session 2B:CV Raman Hall (S18)</p> <p><i>Academic digital libraries</i></p> <p><i>Chair:</i> Alaka Burogohain (Retd.), Professor, Guwahati University, Assam</p> <p>Invited Speaker (25 minutes):</p> <ol style="list-style-type: none"> 1. Mangala Krishnamurthy (USA) ‘Academic Science & Engineering libraries on Digital Library Services’ 2. John Paschoud (England) Business and Community ‘Engagement: Extending access to academic libraries for greater 	<p>Session 2C:SN Bose Hall (S-19)</p> <p><i>Collaboration and networking between public libraries in DL</i></p> <p><i>Chair:</i> D Jotwani Librarian, Indian Institute of Technology, Bombay, Mumbai</p> <p>Invited Speakers (25 minutes):</p> <ol style="list-style-type: none"> 1. H K Kaul, ‘Public libraries as knowledge centre’ <p>Contributory papers (10 minutes):</p>

	libraries’ Contributory papers (10 minutes): 1. Ashok Kumar Nath Digital destruction, counterfeiting of intellectual property and its Digit - micro photo remedies 2. Indrani Bhattacharyya Digital initiatives for the common man: options for public libraries	business and public benefit’ Contributory papers (10 minutes): 1. Arabinda Maity and Biplab Chakrabarti ‘Organization of digital library in the Calcutta University Library System’ 2. Md Abul Kalam Siddike and Md, Shariful Islam (Bangladesh) ‘Exploring the adoption of information and communication technology (ICT) in the university libraries of Bangladesh: An exploratory study’ 3. Kala Dwarakanath and Ghousia Khatoon ‘Digitization of libraries in B-Schools – A study in Bangalore City’	Appendix ‘B’ (Contd....)
3:15pm – 3:45pm	Afternoon Tea		
3:45pm – 5:30pm	Session 3A: Mini Auditorium Digital Initiatives by the Ministry of Culture’s Organisation <i>Chair:</i> Dr Anjana Chattopadhyaya Director General, Delhi Public Library, India Speakers: 1. Swapan Kr Chakraborty Digital Initiatives in the National Library, Kolkata: A Case Study	Session 3B:CV Raman Hall (S18) <i>Open archives initiatives /PMH and Digital archives</i> <i>Chair:</i> Mr. Jean-Marc Comment Archives fédérales suisses, Switzerland Invited speakers (25 minutes) 1. V N Shukla (India) ‘Digital library of India: metadata and public library’	Session 3C:SN Bose Hall (S-19) <i>DL access, retrieval and e-journals and Knowledge</i> <i>Chair:</i> Gobinda Chowdhury Director, Centre for Information and knowledge management, University of Technology, Australia Invited Speakers (25 minutes): 1. Prof. Paul Nieuwenhuysen (Belgium)

			Appendix 'B' (Contd....)
	<p>2. M K Chakraborty Digital Initiatives in the Asiatic Society: A Case Study</p> <p>3. Intiaz Ahmed Digital Initiatives in the Khuda Bakhs Library: A Case Study</p> <p>4. Bashayam Kasturi Digital Initiatives in the Nehru Memorial Library: A Case Study</p> <p>5. Ramesh Gaur Digital Initiatives in the IGNC: A Case Study</p> <p>6. V Venkatappaiah Public Library and its Future Responsibilities.</p> <p>7. Shah Abdus Salam Digital Initiatives in the Rampur Raja Library: A Case Study</p>	<p>2. Usha Mujoo-Munshi (India) 'Adapting OAIS-RM framework for long term preservation'</p> <p>Contributory papers (10 minutes):</p> <p>1. Sudatta Chowdhury (Australia) 'Use of virtual learning environment in higher education to teach digital natives: A case study'</p> <p>2. Arpita Basu Chandra 'Open access initiatives in India & role of LIS professionals'</p> <p>3. G H Hemantha Kumar, Srinivasa V Papegowda M, Yethi Raju B N and Sudhakara S 'India's contribution to ranking web of world repositories: A case study'</p> <p>4. Jyoti Misra 'Open educational resources: some major issues'</p>	<p>'Relax sir. Take a seat.' or How to Improve Information Discovery</p> <p>2. Dr S Majumdar 'Licensing agreement for E-resources: issues and models'</p> <p>3. Devika Madalli, 'Facets of knowledge diversity'</p>
6:00 pm onwards	Cultural programme and Conference dinner		
Thursday, January 13, 2011 (Day 3): Conference Sessions			
9:00am – 10:00am	<p>Plenary session: Keynote (Mini Auditorium, Science City, Kolkata)</p> <p>Chair: Ms Shailaja Chandra, Chairman, Delhi Public Library Board</p> <p>Speaker: Prof N Balakrishnan, Associate Director, Indian Institute of Science, India</p>		
10:00am–10:30am	Morning Tea		
10:30am–12:30pm	<p>Session 4A:Mini Auditorium</p> <p><i>Strategy for DL development and Public Library</i></p> <p><i>Chair:</i> P Jayarajan Member, RRRLF, Kolkata</p>	<p>Session 4B:CV Raman Hall (S18)</p> <p><i>Content organization and management</i></p> <p><i>Chair:</i> H K Kaul,</p>	<p>Session 4C : SN Bose Hall (S-19)</p> <p><i>Semantics, metadata, ontology and retrieval</i></p> <p><i>Chair:</i> John Paschoud</p>

			Appendix 'B' (Contd....)
	<p>Invited speakers (25 minutes)</p> <p>1. Kristiina Hormia-Poutanen The National Library of Finland 'The National Digital Library in Finland – libraries, archives and museums developing the Public Interface service for end users'</p> <p>2. Barbro Wigell-Ryynänen Counselor for Cultural Affairs, Ministry of Education and Culture, Finland 'Ensuring access to sources of knowledge and culture'</p> <p>3. Leena Mitford Lead Curator, South Asian Studies in British Library</p> <p>Contributory papers (10 minutes):</p> <p>1. Subhajit Choudhury, Chitresh Kala, S Kumar and Jay Prakash Sarwan 'Public libraries as community information & knowledge centers in relation to e-governance projects in India: A case study of Madhya Pradesh'</p> <p>2. Deepa Banerjee Digital Libraries Development and Management: Institutional Repositories in the United States- A Study</p> <p>3. Md Nasiruddin Vision 2021 and the Public Libraries: Need an Action plan</p>	<p>Director, DELNET, New Delhi</p> <p>Invited speakers (25 minutes)</p> <p>1. Jean-Marc Comment (Switzerland) 'The digital repository of the Swiss Federal Archives'</p> <p>2. Shantanu Ganguly Metamorphosis of Library Services: A TERI DL Experience</p> <p>Contributory papers (10 minutes):</p> <p>1. Ashutosh Gopalrao Joshi and Vishwas Pawar 'From miscellaneous to millions through intranet: An evolution of an enterprise wide digital library: The mahindra way'</p> <p>2. Ashis Biswas and Mayuri Das Biswas 'Institutional Repository: A Case Study of India'</p> <p>3. Samrat Guha Roy 'Joomla! open source software for library content management</p> <p>4. Shalini Trivedi Knowledge Management</p> <p>5. Sambhaji G Patil , Ujwala S Ulhe and Shamkant Deshmukh 'Knowledge management in academic libraries: A brief review'</p> <p>6. Sibsankar Jana and Subarna K Das 'Migration: An effective tool for digital preservation'</p>	<p>London School of Economics Library, UK</p> <p>Invited speakers (25 minutes)</p> <p>1. Stefan Gradmann (Germany) 'The Europeana Data Model (EDM): Content representation, context and semantics'</p> <p>2. Tengku Mohd Sembok and Hikmat Awad Mohammad Abd-El-Jaber (Malayasia) 'Query expansion based on user profiling and ontology</p> <p>Contributory Papers:</p> <p>1. Suprabhat Das, Shibabroto Banerjee and Pabitra Mitra 'Anweson: A search engine for Bengali Literary works'</p> <p>2. Santosh Kumar Tunga 'Data mining and its application in digital environment</p> <p>3. Carola Carstens,, Marc Rittberger and Verena Wissel (Germany) 'Information search behaviour in the German Education Index'</p> <p>4. Sharmistha Bhattacharjee, Boudhayan Bhattacharya and Dwijesh Dutta Majumdar 'Performance analysis of multi-level federated data fusion filter architecture based on data retrieval cost'</p>

	<p>to make Digital Bangladesh</p> <p>4. Shahina P Ahas and Swapna Banerjee 'Multilingual and inter-operability: a case study of Indian National Bibliography'</p>		<p>Appendix 'B' (Contd....)</p> <p>5. S. Chakraborty and C. Datta 'Open education resources with special reference to India'</p>
12:30pm – 1:10pm	<p align="center">Business Session and Product Presentation (Mini Auditorium, Science City, Kolkata)</p> <p>1. Harpal Gill, Nature Publishing Group 2. Sanjay Grover, Informatics (India) Limited</p>		
12:30pm – 1:10pm	<p align="center">Poster session Ground Floor, Seminar Hall</p>		
1:10pm – 2:00pm	<p align="center">Lunch</p>		
2:00pm – 4:00pm	<p align="center">Plenary session: Panel Discussion (Mini Auditorium, Science City, Kolkata)</p> <p align="center">DL Strategy, Network, Policy and Public Library</p> <p>Chair: Prof N Balakrishnan, Associate Director, Indian Institute of Science, India</p> <p>Speakers:</p> <p>Dr S Arunachalam, Distinguished Fellow, Centre for Internet and Society, and Visiting Professor at the Asian College of Journalism.</p> <p>Prof. Erik Thorlund Jepsen, Chief Consultant, Head of Library Development, Division for Libraries, Danish Agency for Libraries and Media</p> <p>Dr (Mrs) T Kumar, Joint Secretary, Ministry of Culture, Government of India</p> <p>Prof. P B Mangla, Prof Emeritus, Delhi University, India</p> <p>Dr H K Kaul, Director, DELNET, New Delhi</p> <p>Mrs Barbro Wigell-Ryynänen, Counsellor for Cultural Affairs, Ministry of Education and Culture, Finland</p> <p>Mrs Sujata Sen, Director East India, British Council Division, Kolkata,</p>		
4:00pm – 4:30pm	<p align="center">Tea</p>		

Appendix 'B'
(Contd....)

4:30pm – 5:30pm	<p>4:30 pm– 5:30 pm Valedictory Session (Mini Auditorium)</p> <p>4:30 pm – 4:40 pm Summary of the Conference: Prof S B Ghosh Professor Emeritus, IGNOU</p> <p>4:40 pm – 4:50 pm Presentation of the Recommendation: Dr S M Dhawan Library Consultant and Librarian and Scientist, NPL</p> <p>4:50 pm – 5:10 pm Presidential Address by Shri Jawhar Sircar Secretary, Ministry of Culture, Govt of India</p> <p>5:10 pm – 5:25 pm Valedictory address Dr Suranjan Das Vice-Chancellor, Kolkata University</p> <p>5:25 pm – 5:30 pm Vote of Thanks by Shri K K Banerjee and Dr Debal C Kar</p>
7:00 pm	Dinner at Hyatt Regency Kolkata

DETAILS OF PAPER PRESENTATION BY INVITED SPEAKERS

Sl. No.	Subject Group	Title of the paper	Author(s)
1.	Digital library initiatives of public libraries	1. Need for digitization and developing digital collections in Public Libraries in India	1. Kalpana Dasgupta
		2. Raja Rammohun Roy Library Foundation and its initiatives	2. K K Banerjee
2.	Virtual learning	1. Education for digital libraries: library management perspective	1. Elena Maceviciute
		2. Why e-books are not common in academic and research libraries even after rigorous research for nearly twenty years?	2. Gobinda Chowdhury
3.	Digital library services	1. Delhi Public Library System and Digital Initiatives	1. Anjana Chattopadyaya
		2 Knowledge management: A TERI case study	2. P K Bhattacharya
4.	DL standards and policy for Public library	1. Making Libraries Inclusive: Using Technology to Reach Out to People	1. Subbiah Arunachalam
		2. From classical to digital public libraries	2. Erik Thorlund Jepsen
5.	Academic digital libraries	1. Academic Science & Engineering libraries on Digital Library Services	1. Mangala Krishnamurthy
		2. Business and Community 'Engagement: Extending access to academic libraries for greater business and public benefit'	2. John Paschoud (England)
6.	Collaboration and networking between public libraries in DL	1. Public libraries as knowledge centre	1. H K Kaul
7.	Digital initiatives by the Ministry of Culture's Organization	1. Digital Initiatives in the National Library, Kolkata: A Case Study	1. Swapan Kr Chakraborty
		2. Digital Initiatives in the Asiatic Society: A Case Study	2. M K Chakraborty
		3. Digital Initiatives in the IGNCA: A Case Study	3. Ramesh Gaur
		4. Public Library and its Future Responsibilities.	4. V Venkatappaiah
		5. Digital Initiatives in the Rampur Raja Library: A Case Study	5. Shah Abdus Salam

Appendix 'C'
(Contd...)

8.	Open archives initiatives /PMH and Digital archives	1. Digital library of India: metadata and public library 2. Adapting OAIS-RM framework for long term preservation'	1. V N Shukla 2. Usha Mujoo-Munshi (India)
9.	DL access, retrieval and e-journals and Knowledge	1. 'Relax sir. Take a seat.' or How to Improve Information Discovery 2. Licensing agreement for E-resources: issues and models	1. Prof. Paul Nieuwenhuysen 2. Dr S Majumdar
10.	Strategy for DL development and Public Library	1. The National Digital Library in Finland – libraries, archives and museums developing the Public Interface service for end users 2. Ensuring access to sources of knowledge and culture 3. Lead Curator, South Asian Studies in British Library	1. Kristiina Hormia-Poutanen 2. Barbro Wigell-Ryynänen 3. Leena Mitford
11.	Content organization and management	1. The digital repository of the Swiss Federal Archives 2. Metamorphosis of Library Services: A TERI DL Experience	1. Jean-Marc Comment 2. Shantanu Ganguly
12.	Semantics, metadata, ontology and retrieval	1. The Europeana Data Model (EDM): Content representation, context and semantics' 2 Query expansion based on user profiling and ontology	1. Stefan Gradmann 2. Tengku Mohd Sembok

DETAILS OF CONTRIBUTED PAPER PRESENTATION

Sl. No.	Subject Group	Title of the paper	Author(s)
1.	Digital library initiatives of public libraries	1. Digital Library Initiatives by Department of Information Technology, Government of India'	1. Inder Sain
		2. HARAM: Moving toward formation of a national digital library in Iran	2. Naser Ezzati Jivan, Hushang Tavakoli, Parisa Pasyar and Reza Shahrabi Farahani
		3. Digital libraries in India: problems and prospects	3. P.K.Jain, Parveen Babbar, Geeta Paliwal, and Shikha Rani
2.	Digital library services	1. Digital library service: feasibility study of a cloud based service as compared to a LAN based service	1. Divakara Bhat and Ashok Kumar
		2. Application of blog in improving library services – A study in an international perspective	2. Tanmay De Sarkar and Nimai Shit
		3. Towards Arab digital libraries: Opportunities, challenges, and requirements	3. Mohammed Nasser AL-Suqri Khalsa Al-Hinai and Kawther Mohammed Al-Hashmi (Oman)
3.	DL standards and policy for Public library	1. Digital destruction, counterfeiting of intellectual property and its Digit - micro photo remedies	1. Ashok Kumar Nath
		2. Digital initiatives for the common man: options for public libraries	2. Indrani Bhattacharyya
4.	Academic digital libraries	1. Organization of digital library in the Calcutta University Library System	1. Arabinda Maity and Biplab Chakrabarti
		2. Exploring the adoption of information and communication technology (ICT) in the university libraries of Bangladesh: An exploratory study	2. Md Abul Kalam Siddike and Md, Shariful Islam (Bangladesh)
		3. Digitization of libraries in B-Schools – A study in Bangalore City	3. Kala Dwarakanath and Ghousia Khatoon
5.	Collaboration and networking between public libraries in DL	1. Securing Information in infected library networks	1. Nilesh A. Shewale and Abhinav Kumar Singh
		2. Development of networking in public libraries of North East India	2. Surbhi Saini
		3. Collaboration in public library	3. Rashmi Parekh
		4. 'Design and development of digital public library network (DIPLIBNET) for	4. Manoj Kumar Sinha

	automation, networking and digitization of public libraries in India A proposal'	
	5. Digital Library Interoperability: a Survey in Iran	5. Mehdi Alipour-Hafezi
6. Open archives initiatives /PMH and Digital archives	1. Use of virtual learning environment in higher education to teach digital natives: A case study	1. Sudatta Chowdhury
	2. Open access initiatives in India & role of LIS professionals'	2. Arpita Basu Chandra
	3. India's contribution to ranking web of world repositories: A case study	3. G H Hemantha Kumar, Srinivasa V Papegowda M, Yethi Raju B N and Sudhakara S
	4. Open educational resources: some major issues	4. Jyoti Misra
9. Strategy for DL development and Public Library	1. Public libraries as community information & knowledge centers in relation to e-governance projects in India: A case study of Madhya Pradesh	1. Subhajit Choudhury, Chitresh Kala, S Kumar and Jay Prakash Sarwan
	2. Digital Libraries Development and Management: Institutional Repositories in the United States- A Study	2. Deepa Banerjee
	3. Vision 2021 and the Public Libraries: Need an Action plan to make Digital Bangladesh	3. Md Nasiruddin
	4. Multilingual and inter-operability: a case study of Indian National Bibliography	4. Shahina P Ahas and Swapna Banerjee
10. Content organization and management	1. From miscellaneous to millions through intranet: An evolution of an enterprise wide digital library: The mahindra way	1. Ashutosh Gopalrao Joshi and Vishwas Pawar
	2. Institutional Repository: A Case Study of India'	2. Ashis Biswas and Mayuri Das Biswas
	3. Joomla! open source software for library content management	3. Samrat Guha Roy
	4. Knowledge Management	4. Shalini Trivedi
	5. Knowledge management in academic libraries: A brief review	5. Sambhaji G Patil , Ujwala S Ulhe and Shamkant Deshmukh
	6. Migration: An effective tool for digital preservation	6. Sibsankar Jana and Subarna K Das
11. Semantics, metadata, ontology and retrieval	1. Anweson: A search engine for Bengali Literary works	1. Suprabhat Das, Shibabroto Banerjee and Pabitra Mitra
	2. Data mining and its application in digital environment	2. .Santosh Kumar Tunga
	3. Information search behaviour in the	3. Carola Carstens,, Marc

Appendix 'D'
(Contd....)

German Education Index

Rittberger and Verena Wissel

4. Performance analysis of multi-level federated data fusion filter architecture based on data retrieval cost

4. Sharmistha Bhattacharjee, Boudhayan Bhattacharya and Dwijesh Dutta Majumdar

5. Open education resources with special reference to India

5. S. Chakraborty and C. Datta

SUMMARY OF DISCUSSIONS HELD ON SUBJECT GROUPS DURING
THE TECHNICAL SESSIONS

Digital Library Initiatives of Public Libraries

1. The papers presented in this section basically discuss the digital library development/status of few countries like Iran, Arab Republic and India excepting one paper which discusses the public library scenario in India, importance of public libraries in the changing environment and provides certain suggestions like transformation of public libraries into the community information centre, how collection has to be developed in the digital environment both born digital and for digitization and also need for adherence to standards. She recommends survey to find the status of public libraries. The session was chaired by Prof P.B.Mangla.

Virtual Learning

2 The session included two invited speakers from Sweden and Australia discussing the different aspects of virtual learning including necessity of making available the resources in digital format. While the paper discusses the comparison of three programs at different universities in Europe, the paper from Australia identifies the reasons for non-popularity of e-books and suggests that a proper business model needs to be developed. The session was chaired by Prof S.B.Ghosh

Digital Library Services

3. This session reports on the projects on developing digital library services conducted at China and India. The two papers contributed in this session pertain to the study of digital library services using different technologies. The Session was chaired by Dr Swapan Chakraborty.

DL Standards and Policy for Public Library

4. The contributions in this section discuss how technology can be used in libraries so that it is accessible to the people and also about the Danish experience on building digital services for the general public. The paper reports 3 phases in the development of public libraries in

Denmark. In terms of services for the users, the three phases demonstrate a definite development. The session was chaired by Dr S.M.Dhawan

Academic Digital Libraries

5. The session focused on 2 different aspects --- the experience of switching over from print to e-documents at University of Alabama and the experience of adopting Federated Access Management technologies in UK community and 20 other countries with the recommendation of adopting for India and result of studies concerning digitization in university libraries at Bangladesh, B-schools at Bangalore and at the Calcutta university library system. The session was chaired by Prof Alka Buragohain

Collaboration and Networking between Public Libraries in DL

6. The session focused on the public library scenario in India with particular reference to NE region. Observing the inadequacy of digital public library development, the papers suggest networking of public libraries, need for collaboration and security aspects of the network. The paper from Iran points to non-availability of interoperability amongst the digital libraries in Iran and proposed a model which is OAI compliant. The session was chaired by Dr. D. Jotwani

Digital Initiatives by the Ministry of Culture's Organization

7. The session focused on the digital library scenario in National Library, Kolkata and the Indira Gandhi National Centre for Arts, New Delhi. The session recommends that the National Libraries should be included in the National Manuscript Mission in view of the fact that there is lot of old manuscripts in the libraries. Further it was recommended that the list of manuscripts being digitized may be made available so that the duplication may be avoided and its advantages can be taken by the neighboring countries also. The Session was chaired by Dr Anjana Chattopadhyay

Open Archives Initiatives/PMH and Digital Libraries

8. This session focused on the role of metadata particularly in the context of usage in public libraries, and also how adapting OAYS-RM is useful for long time preservation. The open access initiatives in India and the major issues in developing open educational materials have been

focused. The role of LIS professionals in developing open access have also been discussed. The session was chaired by Jean-Marc Comment

DL Access, Retrieval and e-journals and knowledge.

9. The session provides a broad scenario of core functions of digital libraries to support their users in discovering the most relevant information and how the developers and managers of information sources and information services can improve information discovery. It also focused on how the authors/creators/producers/developers/ managers of information sources and developers/managers of information services can improve information discovery by existing and potential users. One of the papers in this session focused on the issues relating to licensing of e-resources. The session was chaired by Prof Gobinda Chowdhury

Strategy for DL development and Public Library

10. The session provides digital libraries scenario in the context of Finland and Bangladesh. The development of public libraries as integrated service center and community information centre has been recommended. The digital initiatives in context of multilingual documents have been reported from India. The session was chaired by Dr P. Jayarajan

Content Organization and Management

11. In this session two papers was discussed in the context of developing digital repository of 2 countries—Swiss and India. The development of digital libraries at corporate sector,, features of open source software have been discussed in two papers. The session was chaired by Dr. H.K.Kaul.

Semantics, Metadata, Ontology and Retrieval

12. The semantic web approach and its capabilities for searching of information on the web and the way of extracting relevant ones according to user's preferences, data mining and its application in digital environment and data fusion have been brought out in this session. The session was chaired by John Paschoud.

DETAILS OF POSTER PRESENTATIONS

Sl. No.	Title of the poster	Author(s)
1	Evaluation of LIS Course Curriculum in Bringing a Change in Library Management in This Digital Era with Case Study	Zabeen Ahmed
2	Use Of Electronic Information Services In ICAR Research Libraries, Nagpur	C.V.Bankar and Mrunal D Gajbhiye
3	A Beneficial support of Preservations in Digital Library	B H Barhate and D M Deshmukh
4	Virtual Learning Environment on Library and Information Science: Designing A FLOSS Based Prototype	Barnali Chakrobarty
5	Preservation of Digital Information in Library & Information Centres	Kuldip Chand and Ramesh Lal Meena
6	An Overview of the Issues, Problems, Strategies, Challenges & Possible Solutions Related to Digital Preservation	Rabin Chatterjee and Jitendra Nath Bajpa
7	Digital Library and its Issues	Digvijaysinh Chauhan
8	Creation and Implementation of Library Blog Portal by using WordPress for Online Information Service	Subarna K Das and Rajesh Das
9	Network Architectures and Communication Protocols for Digital Library: Indian Ssenario	Bedarata Dash and Saurabh Lohia
10	A Digital Library Proposal for Gujarat University Library	Indira Dodiya
11	Digital Management Systems in ICT Environment: The Nation that reads is the Nation that Leads	S.Durai and K.Nallaperumal Pillai
12	Open Educational Resources: role of libraries and LIS professionals in modern information era	Saikat Goswami, Payel Biswas and Munmun Bhattacharje
13	National Digital Library Programe of Pakistan: Extending Benefits of Research to Stake Holders	Muhammad Javed Iqbal, Sher Muhammad, and Saghir Iqbal
14	Digital Preservation and Management System: Challenges and Opportunities	A Jayaprakash and A Shanthan Kumar
15	Importance of Open Archives Initiatives – Protocol for Metadata Harvesting in Web based Searching and Retrieval Environment	Kanchan Kamila
16	Digitization of oldest biomedical Indian Journal the Indian Journal of Medical Research (IJMR): A case study	Rajni Kant

17	Awareness, Availability and Impact of ICT in/on Rural & Urban First Grade College Libraries In Karnataka: With special Reference to Colleges in Davanagere District-A Comparative Study	N Kotresh
18	Marketing Strategy of Information Services in Hi-tech Libraries and Information Centres in India	Raman Prakash Kulshrestha and Dr.B.K.Sharma
19	Application of Knowledge Management Tools in Development of Library & Information Centers (LICs)	Santosh Kumar and Manoj Kumar Verma
20	Technical assessment of Greenstone toward development of Digital libraries in Iran	Azad Paknejad and Mohammad Hassnazadeh
21	Moving Towards Digital World	Archana Pandey
22	Role of Digital Libraries in Knowledge Management	Sonia Parida
23	Knowledge Management in Digital Era	Mrs. Raxa A. Patel and Indira Dodiya
24	Digital Resources: Boon for Modern Library With Special Reference to Pondicherry University	V R Rajan
25	Metadata Standards: Perspectives	Ramesh and GP Suresh
26	Campus Wide Information System (CWIS): A New Look in Kalyani Government Engineering College (KGEC), Kalyani, Nabia, West Bebgal	Mahadeb Rana
27	Digital Information Preservation: Risks and Strategies	G A Prasad Rao and V Nireekshan Babu
28	Digital Preservation of Manuscripts on the Societal Archive: a case study of Central Library and Documentation Centre University of Tehran- Tehran, IRAN	Leili Seifi and Khaiser Nikam
29	Digital Library Initiatives, Library Services and Development Issues in India	P Senthilkumaran and J Thomas
30	Digital Library: Services, Challenges and Preservation of Digitized Information	Tufail Ahmed Abdul Munaf Shaikh and T.R. Borse
31	Digital Library Applications and Services in Present Scenario: A Study	Rohit Singh and Raj Kumar Sharma
32	Methods and Approaches Applied in the Creation and Development of SCILET Digital Library Using Open Source Software	C. Sujatha and T. Ganesh Babu
33	The Internet Global Subject Directories: Creating Niche in Digital information Services among the Users of CCS University, Meerut (India)	Shiva Kanaujia Sukula
34	Show casing 'giving culture' through electronic-customer relationship management	P Sundarraj
35	Digital Library Resource Management: Special collections and digitization activities of Tribhuvan University Central Library (TUCL), Nepal	Bina Vaidya
36	Digital Preservation: Issues and Challenges	M Veerabasavaiah and K Doraswamy

Appendix 'F'
(Contd....)

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|----|---|---|
| 37 | Weeding Out Process in Technical Information Centres of Research and Development Institutions -- A Case Study | A M Nageswara Yogi ATC Nair and Geetha Ananda |
| 38 | Current Awareness Services by Technical Information Centers with a Case Study | A M Nageswara Yogi, S H Leelavathi and M Muganthi |
| 39 | Digital Libraries in India: Progress and prospects | Bidyut K. Mal, R. P. Bajpai and H. K. Chakraborty |

RECOMMENDATIONS

Vision Statement

The Conference recognizes that the value of Digital Libraries lies in promoting knowledge society, innovation, literacy, lifelong learning, reading culture; exploring cultural heritage, leisure or entertainment; supporting everyone in the quest for information, reading material and published resources; and offering a neutral place for the people to meet and interact with each other.

Vision - India to emerge as a role model in the development of public libraries as modern digital information and knowledge centres on a sustainable model for access to digital resources on Indian culture and heritage.

Key Recommendations

- Reorient libraries for a more customer focused resources and services
- Set up a National Digital Public Library of Indian Culture and Heritage
- Develop a National Policy on Creation of Digital Resources
- Build and strengthen capacity and competencies of public libraries professional staff in ICT applications
- Develop a platform to provide online access to integrated catalogue of large, medium and flagship public libraries
- Enable public libraries to manage their functions by using LMS hosted on a central server
- Build and strengthen information infrastructure in public libraries

Issues and Action Statement

1. Reorient libraries for a more customer focused resources and services

Key Message : The Conference recognizes that public libraries by harnessing information technology, adopting best practices and standards in the service and management of library operations, and by building innovative management models that allow web access to nation-wide distributed library resources can improve the value and impact of public libraries and can make them relevant to the challenges of contemporary society in the present digital environment. In this context, it is important that public libraries must expand their roles as follows in a phased manner:

- Community Information Centre – Connecting local community at village panchayat level to information on governmental programmes on social, health, and cultural importance as well as to information of daily interest to members of such community for economic regeneration

- Learning centre – Connecting student community and people to knowledge materials as a means of aiding their educational goals, career goals, and economic regeneration
- Information literacy centre – Connecting people to basic computer skills and competencies and to information resources of interest to them and how to access and use them online
- Focus on reaching the un-reached – Public libraries may focus on the less privileged, less educated, and less well off from remote and underdeveloped areas to meet the societal needs for inclusive growth;
- Internet access centre – Public libraries should serve as centre for use of Internet for information purposes free of charge
- Building Community-focused resource – Public libraries may build community-focused resources, and repositories of cultural heritage of local interest, in local language

Action: RRRLF may bring about awareness among the professional staff of the public libraries on above mentioned roles by way of organizing various suitable programmes and enable the professional staff with competencies to undertake and play the above mentioned roles.

2. Set up a National Digital Public Library of Indian Culture and Heritage

Issues : A number of public libraries are engaged in the creation of digital resources as well as in digitizing activities. In addition, quite a good number of agencies such as DIT, CSIR, ICAR, ICSSR and others are also engaged in similar activities leading to perhaps duplication in such effort. Although such indigenous resources do constitute an important national resource and that such resources are not available for access through any other channels such as Google, Yahoo and others, it is essential to integrate these resources on a common platform with links to full text and artifacts. The organization and management of these resources however would remain in distributed manner as at present. To make it happen it is therefore essential and important to integrate all such resources on a common web based platform.

Action 1: RRRLF in consultation with the States may take up initiatives in digitizing various heritage and rare material holdings as well as modern day copyright free materials in the holdings of public libraries in respective States

Action 2: The Working Group already in place in Ministry of Culture may work out a feasibility report to set up a facility for the purpose.

3. Develop a National Policy on Creation of Digital Resources

Issues: The component of such a policy would be as follows:

- Identification of libraries who should under such work
- Formulate and define the technology, national standards, best practices, and guidelines for digitization and content development to ensure quality and consistency in such digital outputs;
- Provide funding to libraries to build repository of local resources for global access;
- Provide funding to libraries to enable them to make a shift in their library functionality and services from one primarily based on text to those based on Internet, mobile and broadband connectivity;
- Guidelines for collection development of electronic and print resources for different categories of public libraries
- Identify manpower needed at different levels for ICT integration in libraries, etc.
- Set up a mechanism to minimize duplication in digitization efforts in the projects undertaken by various agencies in creating digital resources;
- Enable public libraries to build stronger linkages with academic, and special libraries on issues of common interest.

Action: The responsibility to develop such policy document may be entrusted to the Digitization Task Force already set up by the Ministry of Culture. The document may be prepared in consultation with stakeholders in the States.

4. Build and strengthen capacity and competencies of public libraries professional staff in ICT applications

The Ministry of Culture may authorize RRRLF as the nodal agency to organize need based workshop/ training programmes in ICT application in partnership with institutions of repute and library schools in India and abroad for the benefit of professional staff.

Set up scholarships programmes in library schools for internship in leading libraries of India and abroad.

Action: RRRLF may prepare a feasibility report on the above proposal.

5. Develop a platform to provide online access to integrated catalogue of large, medium and flagship public libraries

Issues: At present the customers countrywide do not have any means to know what resources are available in leading public libraries in India resulting into under-utilization of public library resources. The challenge is how to widen library accessibility to users.

Develop Information Commons – A service tool on the Web to provide access to integrated catalogues of nationwide libraries including the linkages to full text documents wherever available, and incorporating in this catalogue the Web 2 technology for managing user generated data, leading to Library 2.0 catalogue.

Action: The Ministry may setup a task force to work out the feasibility of the proposal.

6. Enable public libraries to manage their functions by using LMS hosted on a central server

- Issues: The pace of Library automation in public libraries is slow and tardy due to varied factors such as long delays in the selection of suitable Library Management System (LMS) packages, late administrative approvals, followed by support service issues.
- On the other hand, the proposed centralized approach to library automation provides the advantage to accelerate automation process and avoids the need to set up expensive standalone LMS systems and also avoids duplication in cataloguing efforts by participating libraries.

Action: The Committee constituted by the Ministry of Culture for undertaking the CIP project may also be given the responsibility to work out the feasibility report on the above proposal.

Expected Outcomes

These sets of recommendations, once fully implemented, are expected to produce the following outcomes

- It will generate a one-stop shop for access to Indian cultural heritage information which currently either does not exist or are not easily accessible.
- It will bring the public library system to the next generation level, or the Library 2.0 level where every member of the public will have access to information that they may need for their day-to-day activities or for knowledge and creation.
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- It will create a mechanism of one-window access to the entire knowledge available in Indian public libraries

The Recommendations have been drafted by the Recommendation Committee constituted by the Conference Organisers with following members:

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