



INFLIBNET NEWSLETTER

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Message from Director's Desk



The last quarter of the year, i.e. from October to December 2008, was packed with a lot of activities. The Centre got an opportunity to look back and review its progress during the visit of Expert Team for XI Plan Period. The expert team led by Prof. S. S. Kadam, Vice-Chancellor, Bharati Vidyapeeth University, Pune, visited the Centre on 27th and 28th November, 2008 to review the progress made by the Centre during X Plan Period and to evaluate its financial and manpower requirements for the XI plan Period. Other members of the team were Prof. Ajit Kembhavi, Distinguished Scientist, IUCAA, Pune, Dr. Usha Munshi, Librarian, Indian Institute of Public Administration, Delhi, Mr. Daulat Jotwani, Librarian, IIT Bombay and Dr. Renu Batra, JS (IUC), UGC, New Delhi. The Centre presented its major achievements and contributions made during the X Plan Period and projected its future endeavours to the Expert Team. The Expert Team congratulated the small team of scientists for making a major contribution to the academic community in the university system. The visit of the Expert Team for XI Plan was indeed a great source of enthusiasm and inspiration for all the staff members of the Centre. The Centre took this opportunity to get its Hindi website launched by Prof. S. S. Kadam.

Physical infrastructure, a major bottleneck in functioning of the Centre, is being taken-up as one of the priority by the Centre as well as by the authorities in UGC. A number of meetings were convened with the Architect to finalize the design of the building which was presented to the Building Committee and to the Governing Board during the period under review. The Building Committee approved the new conceptual design proposed by the Architect. The processes of tendering and obtaining permission from the local authorities have begun. It is hoped that the work of construction of building would start by the middle of 2009.

The union catalogue of books and other materials available in university libraries is one of the major initiatives of the Centre since its inception. A new interface for the union catalogue, called IndCat, that has recently been developed, was launched by Prof. S. K. Khanna, Chairman, Governing Board, INFLIBNET Centre. The IndCat facilitate restriction of search within a given university, which essentially means that the catalogues of all participating libraries are available online through the INFLIBNET's website. The IndCat also facilitate copy cataloguing of records from the IndCat and import it into the local library software of individual libraries. The Centre conducted a workshop on LINUX and other Open Source Software related to LIS, essentially to demonstrate its commitment to the Open Source Software and FOSS movement. Five awareness programmes on access to e-resources were organised during the quarter under review including one each at Imphal, Mysore, Itanagar, Delhi and New Delhi.

The Centre is currently making preparation for organizing 7th International CALIBER 2009 with Pondicherry University in Puducherry, Tamil Nadu from 25th February to 27th February 2009 on "E-Content Management: Challenges and Strategies". The convention received unpresidential response to our request for submission of papers and has attracted more than 240 submissions! Likewise, we expect that CALIBER 2009 will attract a large number of national and international delegates. Looking forward to meet you during CALIBER 2009.

Jagdish Arora

Physical Infrastructure

The Architect, M/s Vastu Shilpa Consultants has evolved a conceptual model of the Institution's building after detailed discussions and deliberations on activities, services and corresponding physical requirements with the staff and scientists of the Centre. The presentation on the conceptual model of building was made to various committees (Building Committee, Governing Board and Governing Council) as well as to the scientists and the staff of the INFLIBNET Centre. The final design for the Institutional Building at Infocity, Gandhinagar were finalized by the Architect and approved by the Building Committee of the Centre. Tender has been floated for short-listing builders and advertisement was published for appointing a Project Engineer for looking after the construction work of the building. It is expected that the construction work would begin within next three months.

Trends in Higher Education: Creation and Analysis of Database of PhDs in the Country: NIAS-INFLIBNET Joint Project

The INFLIBNET Centre, in collaboration with NIAS (National Institute of Advanced Studies), Bangalore has taken a joint project on "Sharing and Analysis of Bibliographic Records of Theses", funded by the Tata Consultancy Services (TCS), Bangalore. The INFLIBNET and NIAS will be analysing the bibliographic records of the Ph.D. theses from 1998 to 2007 for finding trends in higher education for 10 years in terms of distribution of researchers by gender, subject, state, region and language. An interface will also be developed for facilitating online registration of individuals awarded doctorate degree across the country through 24x7 dedicated website, where analysis of the data on higher education trends will be available online.

Hindi Version of INFLIBNET Website Launched

Hindi version of the INFLIBNET website was launched by Prof. S. S. Kadam, Vice Chancellor of Bharathi Vidyapeeth, Pune on 27th November 2008 during visit of the UGC's Expert Team on XI Plan. The INFLIBNET website on Hindi language is available on <http://www.inflibnet.ac.in/hindi/>.



Prof. S S Kadam launching the Hindi Version Website of INFLIBNET Centre. Prof. Ajit Kembhavi from IUCAA, Dr. Usha Mujoo Munshi, Librarian, IIPA, New Delhi and Dr. Jagdish Aroa, Director, INFLIBNET Centre are also seen

IndCat: New Interface for INFLIBNET's Union Catalogue

The new interface of union catalogue of Indian universities called IndCat was launched by Prof. S K Khanna, Chairman, Governing Board, INFLIBNET on 3rd December 2008. The IndCat is available on <http://indcat.inflibnet.ac.in/>. The new interface for union catalogue of Indian universities (IndCat) has following features:



Prof. S K Khanna, Chairman, Governing Board, INFLIBNET Centre, Launching the Website of the IndCat: Online Union Catalogue of Indian Universities. Prof. Parimal Trivedi, Vice Chancellor, Gujarat University and Member of the Governing Board and Dr. Jagdish Arora, Director of the Centre are also seen

- ☞ Round the clock un-restricted access to more than 10 millions of documents available in universities across the country to anyone, anytime, anywhere, 24 hours a day, 7 days a week and 365 days a year;
- ☞ Facilitate users to download search results in a local file and prepare bibliographies;
- ☞ Facilitates copy cataloguing, i.e. exporting high-quality records in MARC21 format and allows to import them into local library software;
- ☞ Facilitates resource sharing amongst participating universities and beyond. Users can send Inter-Library Loan (ILL) requests using web based interface of Ind Cat;
- ☞ Serves as an OPAC for individual university library i.e. a user can restrict his / her search within a given university;

- ☞ Facilitates quick and simultaneous search from collections distributed across the country in various university libraries;
- ☞ Multiple listing and display options i.e. brief and descriptive format;
- ☞ Multiple search options i.e. records can be searched by author, title, subject heading, place of publication, publishers and year; and
- ☞ Serves as a backup for university libraries for their holdings.

SOUL Training Programme

The Centre provides regular training programmes on installation and implementation of the SOUL software to the SOUL users. Accordingly, this quarter, 72nd SOUL orientation programme was organized on 17th to 21st November 2008 for 25 participants drawn from the different parts of the country.



Delegates of the 72nd SOUL Training Programme at INFLIBNET Centre with Teaching Faculty and Staff of the Centre

PLANNER 2008: Report (Nagaland University, Dimapur, 6th - 7th November 2008)

6th PLANNER (Promotion of Library Automation and Networking in North-Eastern Region) was organised by the INFLIBNET Centre, Ahmedabad in collaboration with Nagaland University on 6-7, November 2008 at SETAM, Dimapur, Nagaland. The theme of the convention was Open Access, Open Source, Open Libraries(O³). The convention was attended by more than 300 delegates including four delegates from neighbouring country Bangladesh.

The Convention was inaugurated by Prof. K Kannan, Vice Chancellor of Nagaland University on 6th Nov 2008. Shri. Manoj Kumar K., Convener of the Convention from the INFLIBNET Centre welcomed the delegates and dignitaries. Dr. Jagdish Arora, Director INFLIBNET presented an overview of activities, services and functions of the INFLIBNET Centre and its future plan for North Eastern regions. He also brought the attention of the participants to the initiatives of INFLIBNET in promoting open access in LIS related activities, database management, building of a union catalogue of library resources ('IndCat') of 142 university libraries in India and its growth to more than one crore of bibliographic records. Dr. Arora highlighted the fact that SOUL software has more than 1650 installations including 103 installations in North East region. He informed to the delegates that the catalogue version of SOUL 2.0 was demonstrated during CALIBER 2008 at Allahabad University, Allahabad on 28th February 2008 and announced that the full version of SOUL 2.0 will be released during first quarter of 2009. The Convention Proceedings was released by Prof. Kannan and the CD of the Convention Proceedings was released by Shri. M. Moni, Member, Governing Board, INFLIBNET and Deputy Director General,

NIC, New Delhi. Dr. Jagdish Arora released the Souvenir of the Convention.



Prof. K Kannan, VC, Nagaland University releasing the Proceedings of the Convention

Prof. Kannan, while inaugurating the Convention read out the message sent by his Excellency, the Governor of Nagaland, Sh Shankaranarayanan. Hon'ble Governor appreciated the novel initiative of organizing PLANNER 2008 in Nagaland and urged the delegates and professionals to tap maximum benefits for upliftment of the profession in the region. Prof. Kannan in his inaugural speech compared library with many other public sectors of the current scenario especially with the mall culture being developed in the society where customers are becoming choosy day-by-day during his address on 'Should the Library be like a mall?'. He briefed about the initiatives of the Nagaland University in



Delegates of the PLANNER 2008

establishing e-learning facility with 1400 hours of recorded video lectures by eminent academicians funded by the MHRD under NPTEL (National Programme of Technology Enhanced Learning) programme. The video lectures cover over 20 courses and are available as Video-On-Demand service over the network.

Shri. M. Moni emphasized the need to synergise the disciplines of LIS and computer science to a new discipline called "Digital Library Science" and cross

fertilization of disciplines for return of investment in terms of people, knowledge and process. Dr. T. Temjen, Organizing Secretary of the Convention expressed vote of thanks. Dr. S. Venkadesan, Librarian, IISc, Bangalore was Director of the Convention and Dr. R. Samyuktha, Librarian, Pondicherry University, Puducherry was Rapporteur General of the Convention.

Of 44 papers published in the proceedings, 20 papers were presented during the convention in the following

| Session the Session | Theme of the Session | Chairman of of the Session | Co-Chairman |
|---------------------|--------------------------------|---|------------------|
| Session 1 | Open Access | Dr. Prabhakar Rath | Sh. M Maltesh |
| Session 2 | Open Source | Dr. V D Srivastava | Dr. Moses M Naga |
| Session 3 | Open Libraries | Dr. P V Konnur | Sh. Prem Chand |
| Session 4 | Consortium and Digital Library | Dr. Narendra Lahkar | Dr. Rajeev Vij |
| Session 5 | Pannel Discussion | Dr. Jagdish Arora, Dr. S Venkadesan, Dr. P V Konnur, Dr. Narendra Lahkar, Dr. I Majaw and Dr. Khomdon Singh | |

four sessions:

The following experts in the field of LIS were invited to present theme papers in each of the four sessions:

- 1) Theme paper - 1 - by Dr. Jagdish Arora on Open Access and Scholarly Publishing;
- 2) Theme paper - 2 - by Dr. S Venkadesan on Open Library
- 3) Theme paper - 3 - by Sh. Manoj Kumar K on Open Source Philosophy of freedom and sharing for open models.
- 4) Theme paper 4 by Sh. Prem Chand on Access to E-journals through UGC-Infonet Digital Library Consortium: Study of Usage Trends among the Universities of North East India

The major recommendations of the Conventions were as follows:

1. Promote use of open source software in libraries of North East Region with INFLIBNET

2. Centre to play key role in this process.
2. Promote usage of e-resources of UGC-Infonet Digital Library Consortium and organize more awareness programme on e-resources in the region.
3. Promote setting up of IR and OA journals in Universities.
4. The INFLIBNET Centre may play the role of a catalyst for evolving policies to promote OA and IRs.
5. Promote creation of ICT infrastructure for effective use of electronic resources made available through the INFLIBNET Centre.

Concluding session started on 7th Nov 2008 with welcome address by Organising Secretary, Dr Temjen and feedback from the delegates. Dr. Rajkhowa, Director, Mithun Research Centre (ICAR) was the Chief Guest of the Valedictory session. In his concluding remarks, he recalled the impact of acquaintance with his Librarian in early days of his education and

research, he suggested that INFLIBNET should build a repository to help the North East region to utilize the resources. Village Resource Centres can be linked to these institutions to pass on information to the villagers in terms of agriculture etc. Director of UGC, Bangladesh also shared his experience in handling the digital library projects in Bangladesh. Session concluded with distribution of certificates and vote of thanks by Sh. Manoj Kumar K, Convener of the Convention.

Workshop on Linux and Open Source Software, INFLIBNET Centre, 8th - 12th December 2008

The INFLIBNET Centre organised a 5-day Workshop on Linux and Open Source Software from 8th to 12th December 2008. 15 computer and library science professionals from various academic institutes attended the workshop. The programme was inaugurated by Dr. Jagdish Arora, Director, INFLIBNET Centre. While inaugurating the programme, Dr. Arora emphasized relevance and importance of open source software. Dr. Arora stated that the INFLIBNET, as an institution, is committed to implementation of open source software in the Institute. In his address to the participants, Dr. Arora spoke about Web 2.0 and Library 2.0 technologies implemented at the Centre. Faculty for the workshop included experts from within the Centre as well as from neighbouring institutions including Sh. Manoj Kumar K (Scientist D), Sh. Ashok Kumar Rai (Scientist D), Sh. Yatrik Patel (Scientist C), Sh. Rajesh Chandrakar (Scientist B), Mr Rajeev Kumar (Scientist B) from the Centre. Dr. Atul Gonsai from Saurashtra University, Rajkot and Shri H Anil Kumar, Librarian from IIM, Ahmedabad were invited as resource persons for the workshop. Following topics were covered during the workshop:

- ☞ Philosophy of FOSS;
- ☞ Introduction and installation of Linux;
- ☞ Linux System Administration;
- ☞ Content Management Software;

- ☞ Open Source ILM software; and
- ☞ Open Source initiatives in India.

The workshop was concluded by Sh. Manoj Kumar K, who discussed on advantages of UGC Infonet and Digital Library Consortium. The workshop was coordinated by Sh. H G Hosamani and Sh. Rajeev Kumar, Scientist B of the Centre.



Participants of the Workshop on Open Source Software along with Director and INFLIBNET Staff

Awareness Program for MLIS Students in Gujarat, Gujarat University Library, 30th December 2008

ADINET, in collaboration with INFLIBNET Centre and Department of Library and Information Science, Gujarat University, Ahmedabad has organized Awareness Program for MLIS Students in Gujarat at Gujarat University Library on 30th December 2008. The programme was inaugurated by Dr. Jagdish Arora, Director, INFLIBNET Centre, Ahmedabad. The objectives of the programme were as follows:

- ☞ to make students aware about the relevant advancements in the field of ICT related to LIS.
- ☞ to inject managerial and librarianship skills in the participating students.
- ☞ to enhance the understanding about the required information literacy skills.
- ☞ to inform the students about the necessity of supplementing traditional learning with e learning.
- ☞ to create awareness about the importance of quality work, especially information products & services & the need for an attitudinal change.
- ☞ to infuse the requisite qualities required by library science professionals.

One-Day User Awareness Programme on Access to E-Resources under UGC-Infonet Digital Library Consortium, Manipur University, Imphal, 10th October 2008

The INFLIBNET Centre and Manipur University, Imphal jointly organised One-Day User Awareness Programme on Access to E-Resources under the UGC-Infonet Digital Library Consortium at Manipur University on 10th October 2008. Dr. Th. Khomdon Singh, Coordinator of the Programme and Librarian (I/c), Manipur University welcomed the participants and dignitaries. The programme was inaugurated by Professor H N K Sarma, Pro Vice Chancellor of the University by lighting the ceremonial lamp and delivered inaugural address. Shri Prem Chand, Scientist D, INFLIBNET Centre delivered the Keynote address. Professor N Lokendra Singh, Registrar, delivered presidential speech during inaugural session. About 150 delegates consisting of teachers, research scholars, students and staff participated in the programme. Dr. Th. Madhuri Devi, Head, Department of Library and Information Science, Manipur University proposed formal vote of thanks.



Sh. Prem Chand, Scientist D, INFLIBNET Centre speaking at the time of inauguration of the One Day User Awareness Programme at Manipur University

One-Day Workshop on User Awareness of Online Database under UGC-Infonet Programme, Jawahar Lal Nehru University, New Delhi, 15th October 2008

One-Day Workshop on User Awareness of Online Databases under UGC-Infonet Digital Library Consortium was organized at the Jawaharlal Nehru University Library, New Delhi on 15th October 2008. The workshop was inaugurated by Professor

Rajendra Prasad, Rector, Jawaharlal Nehru University (JNU) and was presided over by Professor Shashi Kant Jha, Chairman of Library Advisory Sub Committee. Dr. Krishan Gopal, Acting Librarian of the University welcomed the participants of the workshop. Dr. Rajendra Prasad, while delivering presidential address, stressed upon the need of enhancing the present infrastructure and the databases available to the users in JNU library. Sh. Prem Chand, Scientist D, INFLIBNET Centre highlighted the scope of UGC-Infonet Digital Library Consortium and the e-resources available to the university through consortium. Professor Shashi Kant Jha expressed warm vote of thanks to the participants and the dignitaries. Publishers associated with the Consortium namely Taylor & Francis, Springer, Emerald, Annual Reviews, JCCC, SIAM, ACS, Oxford University Press, Wiley, AIP/APS and Cambridge University Press delivered presentation about their e-resources available to the university under the Consortium. More than 140 Faculty, research scholars, students and library staff of the University participated in the Workshop.



Sh. Prem Chand, Scientist D, INFLIBNET Centre addressing the participants during inaugural session of the One Day User Awareness Programme at Jawahar Lal Nehru University, New Delhi

User Awareness Programme on Access to E-Resources under UGC-Infonet Consortium, University of Mysore, Mysore, 21st - 22nd October 2008

The Department of Library and Information Science, University of Mysore, Mysore organized two-day User Awareness Programme on Access to E-Resources under UGC-Infonet Digital Library

Consortium on 21st to 22nd October 2008 at the Central Institute of Indian Languages conference hall located in the university campus. Prof. P Venkataramaiah, former Vice Chancellor of Kuvempu University inaugurated the programme by lighting the traditional lamp. Prof.T.C. Shivshankar Murthy, Acting Vice Chancellor, University of Mysore, Mysore, presided over the inaugural function.

Prof. Venkararamaiah in his inaugural address appreciated the efforts of INFLIBNET Centre, Ahmedabad in making the faculty, research scholars and students of the University aware of several e-resources of different publishers on a single platform. Prof. T.C. Shivshankar Murthy, Vice Chancellor of University of Mysore, emphasized on providing the access to e-resources to each and every library user. Sh. Prem Chand Scientist-D, INFLIBNET Centre made presentation about the usage of e-resources at several universities in India with special reference to the University of Mysore. The programme was attended by more than 350 participants comprising of faculty, research scholars, students and library staff of the University. Various publishers associated with the consortium made presentation on their e-resources available to the University. These publishers included Informatics (JCCC@UGC-Infonet), Springer, Cambridge University Press, GIST (Oxford University Press and Taylor & Francis), and Emerald. Panel discussion was also part of the training programme, Dr. P.V. Konnur, University Librarian, Bangalore University, Dr M Krishnamurthy, former University Librarian, Mysore University, Dr. Siddamallaiah, Librarian, NIMHANS, Bangalore, Dr. Khaiser Nikam, Chairman & Organizing Secretary of the programme were panelist. Dr. N.S. Harinaryana, Reader, Department of Library & Information Science proposed vote of thanks.



Prof. Venkararamaiah P, former Vice Chancellor of the Kuvempu University lighting the traditional lamp while inaugurating the one day user awareness programme at University of Mysore. Sh. Prem Chand from INFLIBNET Centre and Prof. Kaisher Nikam, Coordinator of the Workshop are also seen on the picture

One-Day Awareness Programme on E-Resources under UGC-Infonet Digital Library Consortium, Rajiv Gandhi University, Itanagar, 10th November 2008

Rajiv Gandhi University, Itanagar in collaboration with INFLIBNET Centre, Ahmedabad organized One-Day Awareness Programme on E-Resources under UGC-Infonet Digital Library Consortium at Rajiv Gandhi Seminar Hall on 10th November 2008. The programme was inaugurated by Dr. R C Joshi, Head, Department of Geography and In-charge Vice Chancellor. Shri Maltesh Motebennur, Deputy Librarian welcomed the participants and invited dignitaries. Faculty members, research scholars, students from various departments participated in the awareness programme. Sh. Prem Chand, Scientist D represented INFLIBNET Centre in the programme along with various publisher representatives of the e-journals subscribed under the consortium and accessible to the University. Shri Prem Chand briefed about importance of UGC-Infonet Digital Library Consortium along with the usage of e-resources available to the university and the university's position within the consortium. Representatives from Cambridge University Press, Oxford University Press, Taylor and Francis, Springer Links, Emerald, American Chemical Society, American Institute of Physics, Kluwer Journals, Project Muse and JCCC made presentations on their e-resources available to the university. Maximum of 50

participants consisting of the research scholars and the students of the university present for the day.



Sh. Prem Chand from INFLIBNET Centre presenting status of the Rajiv Gandhi University on UGC-Infonet Digital Library Consortium

User's Awareness Programme on UGC-Infonet E-Resources, GGS Indraprastha University, New Delhi, 17th November 2008

Guru Gobind Singh Indraprastha University organised User's Awareness Programme on UGC-Infonet E-Resources on 17th November 2008. The Awareness Programme was inaugurated by Professor K K Agrawal, Vice Chancellor of the University. Shri Shubhash Deshmukh, the Coordinator of the programme and Librarian of the University Resource Centre, welcomed the participants and the dignitaries.

Dr. Jagdish Arora, Director, INFLIBNET Centre delivered keynote address on "Current Status and Future Endeavors of INFLIBNET Centre" with emphasis on UGC-Infonet Digital Library Consortium. Shri V K Jain, Registrar of the University extended warm vote of thanks to the participants and the invited dignitaries. The Awareness Programme was attended by more than 150 participants comprising of faculty, research scholars, students and library staff of the Guru Gobind Singh Indraprastha University, New Delhi. Representatives from the Consortium associated Publishers namely Balani Infotech (American Chemical Society, Project Euclid, Project Muse), Globe (AIP and APS), Informatics (JCCC and Annual Reviews), GIST (Oxford Journals Online), ISID Online Database, IOP and RSC, Springer, Taylor & Francis and Wiley-Blackwell made presentation on their e-resources available to the university. Dr. Anand P. Singh, Deputy Librarian of the University expressed a warm vote of thanks to the participants, dignitaries and publisher's representatives.

Visitors at INFLIBNET Centre

UGC XIth Plan Expert Committee Chairman, Prof. S. S. Kadam and members namely Dr. Daulat Jotwani,



INFLIBNET Scientific and Administrative Staff with the Members of the UGC-XI Plan Expert Committee along with the Chairman of the Committee, Prof. S S Kadam, Vice Chancellor of the Bharathi Vidyapeeth, Pune. Dr. Renu Batra, Joint Secretary, UGC and Prof. Ajit Kembhavi from IUCAA, Pune are also seen.

Librarian, IIT, Mumbai, Dr. Usha Mujoo Munshi, Librarian, IIPA, New Delhi along with Dr. Renu Batra, Joint Secretary, UGC and Prof. Ajit Kembhavi, Chairman, UGC-Infonet Digital Library Consortium visited the INFLIBNET Centre on 27th - 28th November 2008.

Chairman, Governing Board, Prof. S K Khanna and members Dr. M Moni, Dr. Parimal Trivedi along with Dr. Renu Batra, Joint Secretary, University Grants Commission visited INFLIBNET Centre on 3rd December 2008.

Topics on Cutting-Edge Technology in LIS

The article on Web 2.0 and Library 2.0 is a part of the

series of Topics on Cutting-Edge Technology in LIS. The author of the article Prof. G. Sivakumar from Computer Science and Engineering Department, IIT, Mumbai has presented this article during International CALIBER 2009 held at Pondicherry University, Puducherry on 25th to 27th February, 2009 and the same has been reproduced here for the benefit of users of the INFLIBNET Newsletter.

Information explosion [1], caused mainly by affordable computing and Internet's rapid growth poses tremendous challenges for Libraries in particular.

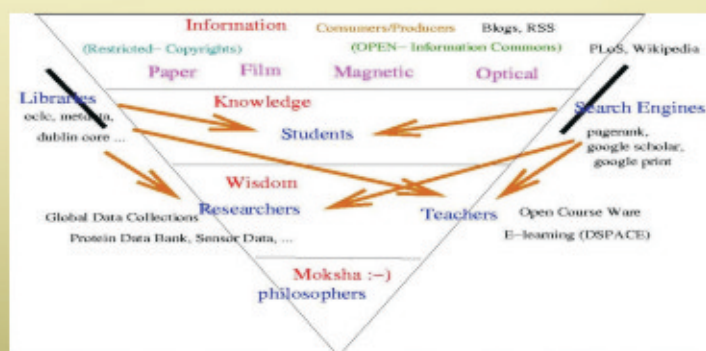
Figure 1(b) illustrates two different approaches to extract knowledge from the information overload. On the left is the top-down approach of modern libraries [3]

Table 1.2: Worldwide production of original information, if stored digitally, in terabytes circa 2002. Upper estimates assume information is digitally scanned, lower estimates assume digital content has been compressed.

| Storage Medium | 2002 Terabytes Upper Estimate | 2002 Terabytes Lower Estimate | 1999-2000 Upper Estimate | 1999-2000 Lower Estimate | % Change Upper Estimates |
|----------------|-------------------------------|-------------------------------|--------------------------|--------------------------|--------------------------|
| Paper | 1,634 | 327 | 1,200 | 240 | 36% |
| Film | 420,254 | 76,69 | 431,690 | 58,209 | -3% |
| Magnetic | 5187130 | 3,416,230 | 2,779,760 | 2,073,760 | 87% |
| Optical | 103 | 51 | 81 | 29 | 28% |
| TOTAL: | 5,609,121 | 3,416,281 | 3,212,731 | 2,132,238 | 74.5% |

Source: How much information 2003

(a) Information Growth



(b) Information Hierarchy

Figure 1. Information Explosion

which are becoming “places to get un-restricted access to information in many formats and from many sources. In addition to providing materials, they also provide the services of specialists, librarians, who are experts at funding and organizing information and at interpreting information needs.” On the right is shown the bottom-up approach of Internet (Web 1.0) technologies such as search engines.

The convergence of these two approaches where librarians can provide assistance [3] “in navigating and analyzing tremendous amounts of knowledge with a variety of digital tools” is the theme of this paper.

Instead of conceptual approach [4] with formal definitions and analysis, we will take an example driven approach. The rest of the paper is organized as

follows. In the next section, we use an example search for information about Bharatanatyam to illustrate the different aspects of emerging Web 2.0 technologies. We then give examples of useful services that could be incorporated in a science and technology library such as the one at IIT Bombay using Web 2.0 technologies. We conclude the paper with a look at some of the concerns such as privacy and need for “radical trust” that need to be addressed during the evolution of libraries to their 2.0 version.

Information Access in Web 2.0 Era

Let us consider the options available today to a student who wishes to learn about Bharatanatyam. For various good reasons, a physical visit to her college library is probably the last option he/she would choose.



(a) Direct Search (b) Faceted Search

Figure 2. Searching for Information

A Google search (see Figure 2(a)) would probably be her first bet. Google funds about half a million hits for this query. Trying to find useful information like this does seem like trying to “drink water from a fire hose.” However, Google uses a clever page ranking algorithm to put pages that it thinks are most useful at the top. For most such searches, the corresponding Wikipedia page usually comes near the top. Google’s page ranking is a simple illustration of how the “wisdom of the crowds” (one of the Web 2.0 mantras) can be tapped to good effect.

In contrast to the results of the direct search through Google, consider the faceted search [8] view offered by a service like <http://www.grokker.com>. This adds much more value to the results by grouping them under different (user contributed) tags (another Web 2.0 mantra). The user can now explore along various facets such as classical dances of India, composers, music, different schools and styles. For a librarian this is like a faceted classification system which allows the assignment of multiple classifications to an object, enabling the classifications to be ordered in multiple ways, rather than in a single, predetermined, taxonomic order. The Colon classification developed by Dr. S. R. Ranganathan is a very good example.

Multimedia content is particularly relevant for this search. Figure 3(a) shows the results from the popular <http://www.youtube.com>. A couple of Web 2.0 mantras are illustrated here. First is the open access publishing allowing anyone to make material accessible worldwide. Another is the architecture of participation brought on by the ratings given by



(a) Video (b) World Catalog

Figure 3. Integrated Searching

others who have viewed this material. Usage statistics (how many people have viewed/downloaded) also offers useful clues in the search results.

Figure 3(b) is the result of searching the ambitiously named World Catalog at <http://www.worldcat.org/>. The takeaways from this in terms of Web 2.0 principles are service aggregation and mashups. Results from the World Catalog can be integrated into other web sites through program APIs. [1]

The examples above illustrate some of the features of Web 2.0 defined initially by O'Reilly [6] as follows.

Web 2.0 is the network as platform, spanning all connected devices; Web 2.0 applications are those that make the most of the intrinsic advantages of that platform: delivering software as a continually-updated service that gets better the more people use it, consuming and remixing data from multiple sources, including individual users, while providing their own data and services in a form that allows remixing by others, creating network effects through an architecture of participation, and going beyond the page metaphor of Web 1.0 to deliver rich user experiences.

For a more detailed explanation with other illustrative examples a good starting point is again the Wikipedia page [5].

Library 2.0

The redefinition of the library's role is driven not only by the rapidly evolving Web 2.0 technologies, but also by the changing needs and demands of the next generation (Internet generation) users. Preparing a

Know your User pamphlet (as opposed to the Know your Library ones) may be a very useful and educative experience for any Library with surprising results. It may be useful to remind ourselves of the (apocryphal) quote attributed to Mahatma Gandhi.

A customer is the most important visitor on our premises. He is not dependent on us. We are dependent on him. He is not an interruption in our work. He is the purpose of it. He is not an outsider in our business. He is part of it. We are not doing him a favor by serving him. He is doing us a favor by giving us an opportunity to do so.

There are various definitions of the term Library 2.0

[7] The term "Library 2.0" was coined by Michael Casey on his blog LibraryCrunch as a direct spin-off of the terms Business 2.0 and Web 2.0. Casey suggested that libraries, especially public libraries, are at a crossroads where many of the elements of Web 2.0 have applicable value within the library community, both in technology-driven services and in non-technology based services. In particular, he described the need for libraries to adopt a strategy for constant change while promoting a participatory role for library users. Library 2.0 is the natural evolution of library services to a level where the library user is in control of how and when she gets access to the services she needs and wants. Thomas Brevik, Library 1.5.

The following is an indicative list of services that libraries could implement using Web 2.0 technologies.

☞ Customizable Alerts via Email/SMS Instead of static content which is Same for everyone and hence more likely to be considered as spam, users may use the library site to subscribe to customized alerts. Examples of this include the following.

Be notified whenever a new book is acquired which matches user selected search criteria on author, title, keywords.

Be notified whenever a paper authored by a colleague (from the same or other departments/institutions) appears in a

journals or conference proceedings online.

Get an email a day prior to and an SMS an hour before any seminar on campus whose title/topic contains some user defined keywords.

☞ A little thought will reveal that each of these need some experimentation and integration of various Web 2.0 tools to implement. This in itself could be very interesting student projects that library staff could give out to technically competent students.

☞ User Ratings/Reviews/Discussions Most catalogue search results only throw up static information (details about the book) and the only dynamic information is usually whether the book has been issued or is in the stacks. It would be very useful if the OPAC search allows users to view/edit some part of the result which includes their ratings of the book, comments on the content and discussions about related material. This will enable the useful flow of information between local users of the library and will encourage them to use this resource (over google or worldcat).

☞ Streaming/Podcasting and Archival of Seminars Most campuses with libraries often host very interesting seminars by distinguished visitors. The Library can play a very useful role of local content generation if it sets up services to stream the audio/video of the seminars and do further value addition of archiving the sites and updating the seminar content with discussions, comments, and question/answers. This will add great value to the institution making it increasingly a producer rather than merely a consumer of useful information.

Conclusion

As we have seen, a radical paradigm shift is happening in the role of Libraries in the current Information era. To stay relevant and remain useful Libraries have to adapt

to changing user requirements and expectations. Web 2.0 technologies can provide very useful tools in this evolution. But, it must be recognized that technology is only a tool and it should only be used once the higher level goals and functionalities are accepted as necessary by both the Library and the users. Once this happens, the best evolutionary path should be carefully chosen instead of trying to achieve an entire technology revamp which could prove both costly and counter-productive.

A bottom-up approach integrating and implementing one useful functionality at a time (even if not fully automated using Web 2.0 technologies) may prove more beneficial especially in the Indian context. The problems and risks involved in implementing user-driven services should also be analyzed a priori and systems should be designed taking these into account. Some major issues are security (much easier for crackers to break in when many interactive services are enabled), privacy (allowing users to retain control over how much of their personal information is revealed in the new services) and misuse such as spam and hate speech that some users may generate using the new services.

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8. **Wikipedia contributors**, Faceted search, Wikipedia, The Free Encyclopedia, http://en.wikipedia.org/w/index.php?title=Faceted_search&oldid=261023553 (accessed January 16, 2009).

INFLIBNET Celebrated Navratri Garba Festival

INFLIBNET Centre celebrated the Navratri Garba Festival on its campus on 1st October 2008. INFLIBNET staff and their family along with Director of the Centre joined the festival on the campus. The Garba started with the pooja and every one in the gathering participated in the garba dance. At the end of the function, Director of the Centre provided dinner to the INFLIBNET family. The video clippings of the garba celebration is available at the official YouTube channel of the Centre at <http://in.youtube.com/inflibnet>.

New Appointment at the Centre



Shri Rajesh Chandrakar joined the INFLIBNET Centre as Scientist B (LS) on 22nd December 2008. Before his current assignment, Shri

Chandrakar was Scientific & Technical Officer - I (LS) at INFLIBNET Centre since 6th March 1997. Sh. Chandrakar is looking after the Publication and Bibliographic Standards unit of the Centre and is closely associated with the Database Management, Software, Open Source and Open Access R & D Groups of the Centre. He is also part of SOUL development team. Sh. Chandrakar can be contacted at rajesh@inflibnet.ac.in. The INFLIBNET family congratulates Sh. Chandrakar for his selection to the post of Scientist B (LS) and wishes him all the best for his future career.

Forthcoming Seminar and Conferences

User Awareness Programme on E-Resources

The following user awareness programmes on e-resources are scheduled:

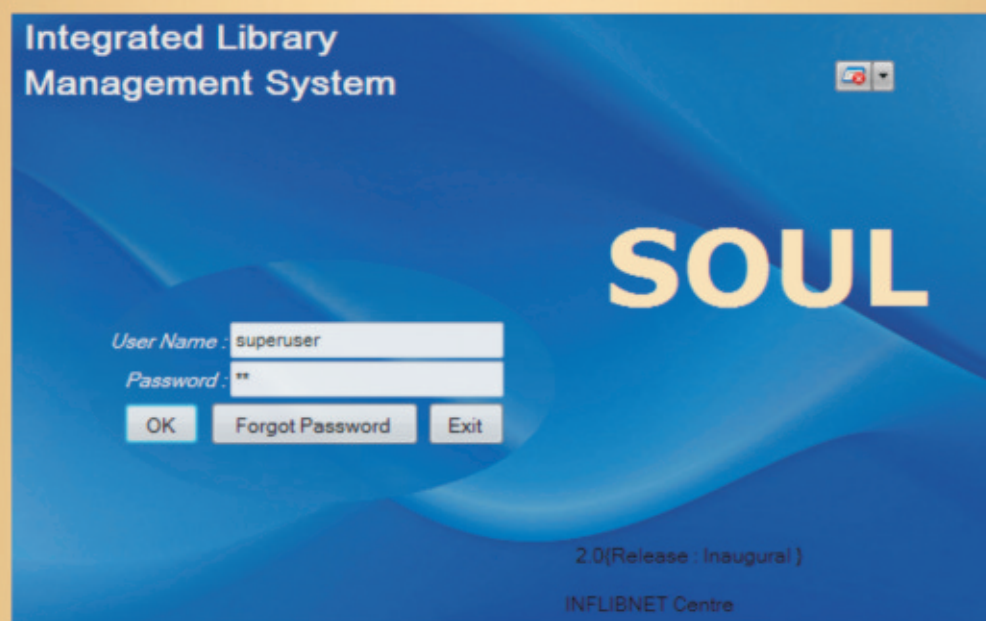
| Sr.No | Name of the University | Date | Coordinator |
|-------|----------------------------|-------------|-------------|
| 1 | University of North Bengal | 25/03/09 | |
| 2 | HNB Gharwal | March, 2009 | |

Staff News

Workshop on Modern Library in College, Govt. D.B. Girls PG (Autonomous) College, Raipur, 16th to 17th December 2008

Sh. Rajesh Chandrakar, Scientist B (LS) of the Centre was invited to deliver a lecture on SOUL software by the Govt. DB Girls PG (Autonomous) College, Raipur, Chhattisgarh on 16th and 17th December 2008. Sh. Chandrakar delivered lecture on SOUL 2.0 to the participants including 100 college librarians of the Chhattisgarh state and 30 M.Phil and Ph.D. students of the Pt. Ravishankar Shukla University, Raipur and Guru Gansidas University, Bilaspur attended the workshop. The retired librarians and professionals of the region also attended the workshop. The workshop was inaugurated by Sh. P Kumar, Secretary, Higher Education, Govt. of Chhattisgarh and valedictory address was delivered by Dr. Arvind Girjkar, Principal of the College. Ms. Sudha Saxena, Librarian of the College coordinated the programme.

SOUL 2.0 (New Version) Released



<http://www.inflibnet.ac.in/soul/>

You can also contact to :

Dr. Jagdish Arora, Director

E-mail: jarora@inflibnet.ac.in

INFLIBNET Centre

City

Varsities to Net their resources

BY OUR CORRESPONDENT CHENNAI

Sept. 29: The Union government will soon introduce a National Knowledge Network to enable all universities and colleges to access e-resources for their academic and research work. The project, enabling access to research material stored online, will be set up at a cost of Rs 100 crore, said Jagdish Arora, director of Information and Library Network (INFLIBNET), an inter-university centre under the University Grants

The project, enabling access to research material stored online, will be set up at a cost of Rs 100 crore.

Jagdish Arora, director, INFLIBNET



डिग्री गर्ल्स में दो दिवसीय राज्य स्तरीय कार्यशाला शुरू

आधुनिक प्रकाशक विषय पर आयोजित इस कार्यशाला में राज्य के अनेक शोधकर्ताओं ने हिस्सा लिया। कार्यशाला दो दिनों में आयोजित की गई। डिग्री गर्ल्स एवं महाविद्यालय एवं

को सारी पुस्तकें मिल जाएं के को नहीं है। इसका परिणाम भी कार्यशाला में हिस्सा एक स्त्री के जरिए प्राप्त करेंगे भी का

किताबों से हटकर कुछ और चाहिए

राजपुर कॉलेज में आयोजित डिग्री गर्ल्स का कार्यक्रम में आज दो दिवसीय कार्यशाला की शुरुआत हुई। विषय का 'महाविद्यालयों में आधुनिक प्रकाशक' के रूप में कार्यशाला के सारी महाविद्यालयों के आयोजित अंतर्गत के राज्य स्तरीय कार्यक्रम को शामिल करें।

द्विदिना - विद्यालय आगत

news & events
Rajiv Gandhi University Newsletter Vol. 2 / Issue-III & IV / Oct. 2008 page 7

One Day awareness programme on e-resources under JGC-INFO NET Digital Library

One-day awareness programme on e-resources under JGC-INFO NET digital library seminar was held at Rajiv Gandhi University on 29th Sept. 2008. Mr. Mahesh Anandaram, Deputy Librarian, in his welcome address, stressed the importance of e-resources. He also highlighted the need for digital libraries to access to scholarly journals and the database in all areas of Science, Technology and Arts. He also stressed the need for digital libraries to provide a single point of access to all digital resources. He also stressed the need for digital libraries to provide a single point of access to all digital resources.

Dr. Prakash in his address stressed the importance of the JGC-INFO NET digital library seminar. He stressed the importance of e-resources in the fields of Science, Technology and Social Sciences. He stressed the importance of e-resources in the fields of Science, Technology and Social Sciences. He stressed the importance of e-resources in the fields of Science, Technology and Social Sciences.

IGNOU e-resources

Dr. Prakash in his address stressed the importance of the JGC-INFO NET digital library seminar. He stressed the importance of e-resources in the fields of Science, Technology and Social Sciences. He stressed the importance of e-resources in the fields of Science, Technology and Social Sciences.



சென்னை பல்கலை. விடுதிகளில்

1 மாதத்தில் இணையதள வசதி

சென்னை, செப்.30: சென்னை பல்கலைக்கழக வளாகங்களில் உள்ள ஏழாவது விடுதிகளுக்கும் ஒரே மாதத்தில் இணைய தள வசதி அளிக்கப்படும். இதன் மூலம் இன்பீஸிப் ரெட் வசதியை சென்னை பல்கலைக்கழக மாணவர்களை பெற முடியும். என்ற துணை வேந்தர் ராமச்சந்திரன் கூறினார்.

சென்னை பல்கலைக்கழக தள வசதி வளாகங்களில் மாணவர்கள் ஆயிரத்துக்கும் அதிகமாக பயன்படுத்தும் இன்பீஸிப் ரெட் வசதி மூலம் பல்கலைக்கழகத்தில் நேரடி நடவடிக்கைகள் மேற்கொள்ளப்படும். இதன் மூலம் இன்பீஸிப் ரெட் வசதியை பெற முடியும். என்ற துணை வேந்தர் ராமச்சந்திரன் கூறினார்.

துணைவேந்தர் முகவல்

சந்திரன் பேசியதாவது... இன்பீஸிப் ரெட் வசதி மூலம் பல்கலைக்கழக மாணவர்கள் ஆயிரத்துக்கும் அதிகமாக பயன்படுத்தும் இன்பீஸிப் ரெட் வசதி மூலம் பல்கலைக்கழகத்தில் நேரடி நடவடிக்கைகள் மேற்கொள்ளப்படும். இதன் மூலம் இன்பீஸிப் ரெட் வசதியை பெற முடியும். என்ற துணை வேந்தர் ராமச்சந்திரன் கூறினார்.

இன்பீஸிப் ரெட் இயக்க முறையின்படி சென்னை பல்கலைக்கழக வளாகங்களில் உள்ள ஏழாவது விடுதிகளுக்கும் ஒரே மாதத்தில் இணைய தள வசதி அளிக்கப்படும். இதன் மூலம் இன்பீஸிப் ரெட் வசதியை பெற முடியும். என்ற துணை வேந்தர் ராமச்சந்திரன் கூறினார்.

पुस्तकालयों का होगा आधुनिकीकरण

प्रथम चरण में डिग्री गर्ल्स, साइंस कालेज व संस्कृत कालेज

डिग्री गर्ल्स कालेज में मंगलवार को राज्य स्तरीय कार्यशाला में राजधानी सहित प्रदेश भर के लाइब्रेरियन (स्टू) उच्च शिक्षा सचिव ने पुस्तकालयों को आधुनिक बनाने की बात कही। कार्यशाला में कालेज में आधुनिक पुस्तकालय विषय पर चर्चा भी हुई।



सहित पूरे प्रदेश के लाइब्रेरियन ने विचारों को व्यक्त किया। उमर को विकसित करने के लिए लाइब्रेरी को समृद्ध बनाना आवश्यक है। श्री कुमार ने राजधानी के पुस्तकालय विकास का काम कुछ ही दिनों में शुरू होने की बात कही। प्रथम चरण में डिग्री गर्ल्स कालेज, साइंस कालेज और संस्कृत कालेज के लाइब्रेरी को उच्च शिक्षा विभाग के सचिव श्री एम.डी. सैमिन ने राजधानी के कालेजों को आधुनिक पुस्तकालय में परिवर्तित करने का निर्देश दिया।

एवॉस साफदेवर का प्रदर्शन कार्यशाला में एक साफदेवर के बारे में उचित लोगों को बताया गया। आर्यदास की संस्था (इनिसेप्ट) मुंबई एवं पुस्तकालय नेटवर्क के टैक्निकल अधिकारी रावेरा चंद्रकर ने साफदेवर से किये जाने वाले कामों को प्रोसेसर के माध्यम से विस्तार से बताया। इस साफदेवर के प्रयोग में लाइब्रेरी के सभी डाटा, किताबों की सूची, विषयवार किताबों का कैटलॉग और जो आपस में सखा वा सकता है। इसके नेटवर्किंग में विद्यार्थियों को भी विशेष सुविधा मिलेगी। नामपू विद्याविद्यालय के लाइब्रेरी विरोध डा. पी.एन.जी. कुमार ने भी लाइब्रेरी के सरल संभालने के बारे में बताया। इस मौके पर कालेज के प्राचार्य डा. अशोक गिरीशकर सहित काफी संख्या में छात्रों, शिक्षक एवं अधिकारी मौजूद रहे।