ICDL2016: SMART FUTURE
Knowledge Trends that will Change the World
13–16 December 2016 | IHC, New Delhi, India

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PLENARY SESSION 3

ROLE OF INFORMATION IN MEETING SDGs

Chair: Ms Donna Scheeder, IFLA President,USA

Co-Chair: Dr R K Sharma, Librarian, UN Information Center, New Delhi

Panellists: Mr Al Amin Yusuf, Advisor, UNESCO, India; **Ms Geeta Malhotra,** Country Director, READ India; **Dr Amarjeet Kaur,** Former Director, NLB, Singapore; **Mr Yashvir Singh,** Economic Adviser, MoEFCC, Government of India

Ms Geeta Malhotra elaborated READ India's efforts to build community space and libraries. She spoke about the role of information in terms of whom, how, when, where, and why. **Ms Amarjeet Kaur** detailed how the library services in Singapore are classified according to the age criterion and the role of library services in bridging the digital divide, green libraries for children, and access to equal education. **Mr Yashvir Singh** mentioned about automation and information dissemination as the two parts of IT and informed that Government of India is developing the IT sector through programmes, policies, and schemes. TERI is one such Centre. **Dr R K Sharma** said that open data and knowledge is important for information dissemination. **Ms Donna Scheeder** spoke about the role and implementation of libraries for SGDs.

VALEDICTORY SESSION

Welcome Address: Mr Ashok Chawla, Chairman, TERI

Special Address: Dr Ajay Mathur, Director General, TERI

Special Address: Mr Prabir Sengupta, Director-TERI LIC, New Delhi, India

ICDL 2016 Recommendations: Prof. Gobinda Chowdhury, Chair, ICDL 2016 Recommendations

Valedictory Address: Dr Ajay Kumar, Additional Secretary, Ministry of Electronics Technology, Government of India

Vote of Thanks: Dr Shantanu Ganguly, Fellow, Knowledge Management Division, TERI

Delivering the Welcome Address, **Mr Chawla** congratulated everyone on the success of ICDL 2016. **Dr Mathur** talked about digital initiatives and role of library. He also emphasized on need to create system for accessible knowledge through digitization. Mr Sengupta expressed his happiness to be a part of this conference as well as the organizing division. He emphasized that this conference will contribute to the 'Digital India' slogan.

Prof. Chowdhury presented his remarks on ICDL. **Dr Kumar** emphasized on the role of library in local language translation and content development in local languages. He said that libraries can be key players for 'Digital India' initiative.

The Conference concluded with the vote of thanks by **Dr Ganguly** thanking everyone for their participation and support.

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TECHNICAL SESSION 5A–5B–5C–5D

DIGITAL RIGHTS MANAGEMENT AND RESEARCH INTEGRITY

Chair: Dr P K Bhattacharya, Fellow & Area Convenor, Knowledge Management Division, TERI
Co-Chair: Dr S S Dhaka, Director, Library and Information Centre, Ministry of External Affairs
Speakers: Prof. Michael Seadle, Humboldt University of Berlin, Germany; Dr Somen Chakraborty, Director, SDPA; Dr Tariq Ashraf, Deputy Librarian & Head. South Delhi Campus Library, Delhi University

E–LEARNING PLATFORM AND OPEN EDUCATIONAL RESOURCES

Chair: Prof. Gobinda Chowdhury , Head, Information Science, Department of Mathematics & Information Sciences, Northumbria University, UK
Co-Chair: Dr Moorttimatee Samantaray, Deputy Librarian and Head Library and Documentation Division, NCERT, New Delhi
Speaker: Dr Shahid Rasool, Director, Commonwealth Educational Media Centre for Asia (CEMCA), India

ENTERPRISE ARCHITECTURE 2.0

Chair: Dr C S Arora, NABET/QCI Assessor & Visiting Professor; Former Senior Consultant, MHRD/NMEICT & Director (EDP), MHA/ORGI
Co-Chair: Dr R N Malviya, Library Consultant, New Delhi
Speaker: Prof. Alejandro Bia, Associate Prof, Miguel Hernandez University, Spain

INTEGRATION OF DATA WAREHOUSING & MINING

Chair: Dr M Madhusudhan, Associate Professor, DU
Co-Chair : Dr S Venkadesan, Director, LRC, Indian School of Business, Hyderabad
Speakers: Prof. Anna Janikova, Associate Prof., Insitute of Computer Science, Faculty of Philosophy and Science in Opava, Silesian University in Opava, Czech Republic; Mr John Akeroyd, Senior Consultant, CIBER Research, Honorary Fellow, University College London

H-index, etc. While discussing e-learning platforms and open educational resources, **Prof. Chowdhury** presented his views on usefulness of these sources for all the students, including the research fellows. **Dr Rasool** spoke on on-line education initiatives done by CEMCA. He discussed knowledge per-capita, massive open online courses, global learning community, etc.

Prof. Bia showed the result of the TRACE project from the point of the view of the DHW Research Group at the Miguel Hernadez University. The project has served to integrate and evolve several tools created to make working with XML, TEI, and TMX faster and easier.

Dr M Madhusudhan gave a brief introduction on data warehousing and data mining. **Prof. Janikova** spoke about use data mining for library management and user service. She also gave some input to how to get OPAC effective.

The session started with the opening remark on importance of digital rights management and research integrity in present digital era. **Prof. Seadle** focussed on three key aspects of research integrity: plagiarism, data falsification, and image manipulation. **Dr Chakraborty** covered Intellectual Property Right Laws, Indian Copyright Act 1957 and its Violation. He gave example of copyright violation in Music Industry. **Dr Ashraf** spoke about measuring the research impact, citation analysis, and concerns related with citation count, impact factor and

SPECIAL SESSION 6B

STEPPING TO SMART FUTURE: APPLICATION OF INTERNET OF THINGS (IOT) FOR SDGs

Chair: Dr Neena Pahuja, DG, ERNET India
Speakers: Mr M K Chaudhary, Executive Director-CIO, ONGC, New Delhi; Dr Shivkumar Kalyanaraman, Program Director, Special Initiatives, Senior Manager, Cognitive Industry Solutions, IBM Research, India
Panelists: Mr Arijit Mukherjee, Senior Scientist, Embedded Systems & Robotics Research, Tata Consultancy Services, India; Ms Sudakshina Ghosh, IOT Specialist, SAP India

In the session, **Dr Pahuja** highlighted how the concept of IoTs has become a part of every citizen's life and provided details of various government/corporate projects. **Dr Kalyanaraman** emphasized on visualization (share) of IoTs to increase productivity in the energy sector by citing the example of URJAR innovation project repackaging system and e-waste management system. **Mr Das** highlighted the ICT infrastructure of ONGC systems and the various related applications of IoTs and their use in day-to-day industrial operations. **Mr Mukherjee** spoke about IoT applications in everyday life and how these have become 'internet of every-thing' across the globe. **Ms Ghose** elaborated IoT drivers and how these connect and monitor the environment (unlike smart city, digital farming, and Digi System); and produce end-to-end close loop monitoring system.

ICDL 2016 @ SOCIAL MEDIA

Maria Gäde: thanks to @teriin for a wonderful experience at #ICDL

Vrushali Dandawate: @teriin #ICDL 2016 Public librarian there is need to become more smart and active in today's world. Need more funds from government

Samuel Abraham: @Krishna2581 excellent talk at @teriin #ICDL #icdl2016 Even the legendary Dr. Kiran Karnik shared about CropIn's success.

Adam Koszary: #ICDL comes to a close. Delhi, you've been amazing, and thanks @inBritish for the opportunity!

Vishal Ahuja: #icdl2016 great learning, opportunity to meet amazing people

TRANSFORMATION IN PUBLIC LIBRARIES

Welcome Address: Dr Shubhangi Sharma, Executive Director, IPLM Secretariat, NASSCOM Foundation
Speakers: Dr B Shadrach, Advisor, Indian Public Library Movement; Ms Donna Scheeder, President, IFLA

PANEL DISCUSSION 1: PUBLIC LIBRARY: A PLATFORM FOR KNOWLEDGE AND COMMUNITY SERVICE

Moderator: Dr Usha Mujoo Munshi, Librarian, Indian Institute of Public Administration, India
Panelists: Dr Surinder Kumar, Senior Technical Director, Digital Archiving and Management Group, National Informatics Centre, India; Mr Himanshu Giri, COO, Pratham Books, India; Ms Liby Johnson, Entrepreneur Expert, United Nation Development Program; Mr Rajiv Mishra, Founder and Managing Director, Total Library Solutions, India; Dr M Naina Rani, National Consultant-PPTCT, World Health Organization

PANEL DISCUSSION 2: ROLE OF LIBRARIANS BEYOND LIBRARIES: WAY FORWARD

Moderator: Dr Jagtar Singh, Professor and Head, Department of Library and Information Science, Punjabi University, Patiala, India
Panelists: Public librarians from partner states
Speakers: Ms Neeza Singh, INELI Innovator, Chandigarh, India; Ms Shobana , INELI Innovator, Kerala, India; Mr Mudassira Ashraf, Librarian, District Library Anantnag, Jammu & Kashmir, India; Dr Mukhtar ul Aziz, Director, Libraries and Research, Jammu and Kashmir Government, India; Ms Kalpana Dasgupta, Advisory Board Member at READ Global, Former Director, Central Secretariat Library, Government of India; Ms Sudha Mukherjee, Public Information Officer, Delhi Public Library, India
Vote of Thanks: Mr P Jayarajan, Library Advisor and Chairman, Indian Public Library Advisory Board, Thunchath Ezhuthachan Malayalam University

In this session, **Dr Sharma** described the Indian Public Libraries Movement (IPLM) and its reach across along with the current challenges. **Dr Sinha** spoke about the NITI Aayog and the Right of Persons with Disabilities Bill, 2014, as well as the infrastructure of public libraries in India. **Mr Shadrach** defined decentralization, idea of similarization, and interconnection, as the three features of IPLM. **Ms Scheeder** spoke about how libraries and librarians can change life. She explained about barriers regarding Infrastructure, gender gap, affordability, and awareness. She also spoke about general trends in public libraries' transformation and tools & techniques for libraries.

PANEL DISCUSSION: DIGITIZATION & ECONOMIC DEVELOPMENT

Chair: Mr Prabir Sengupta, Distinguished Fellow and Director-TERI LIC, New Delhi, India
Panelists: Dr Rajat Kathuria, Director, ICRIER, New Delhi; Mr Kiran Karnik, Chair, Oxfam India; Chairman, Indraprastha Institute of Information Technology; President, IHC, India; Prof. Biswajit Dhar, Professor, Centre for Economic Studies and Planning School of Social Sciences, JNU, India

PANEL DISCUSSION: DISCUSSION PANEL: CAPACITY BUILDING INITIATIVES IN E-GOVERNANCE

Chair: Dr Ashwini Kumar Sharma , Director General, NIELIT
Panelists: Dr Lovneesh Chanana, Vice President - Government Relations, SAP India; Prof. Charru Malhotra, IIPA, India; Dr Piyush Gupta, NISG

Countries with advanced levels of digitization have realized significant economic, social, and political benefits. **Prof. Dhar** emphasized the same saying that digitization is pathway to economic growth. **Mr Sengupta** stated that there will always be effects of digitization on economy. He also said that it will either provide 'demographic dividend' or have 'demographic disaster'. **Mr Karnik** said, "It is time we head from highways to i-ways." **Dr Kathuria** listed some of the side-effects of digitization, such as job risk, regulatory risk, cyber risk, etc.

In the Panel Discussion, all panelists insisted upon role of corporates in training towards capacity building initiatives for e-governance. They also emphasized on introduction of ERP system in any media of work.

AWARDS

ANNOUNCEMENT OF BEST PAPER AWARD
Best Paper Award

ANNOUNCEMENT OF BEST POSTER AWARD
Best Poster Award

EXHIBITIONS

WORKSHOPS @ DAY 4

The workshops on Day 4 discussed the relationships between social media and knowledge. **Dr Shantanu Ganguly** talked about digital marketing by using social media and said that it is the best communication model for smart future. **Mr Sameep Mehta** talked about social mining and social data.

Mr Jitendra Wase discussed how small bytes or texts are being used to capture knowledge through social media. **Ms Meeta Sengupta** explained that the world of linear presentations is gone and now we are into multilayer social PPTs. **Mr Danish Contractor** talked about content management and education that has now become personalized through digitized resources. **Mr Vivek Singh** discussed the importance of social networks and how social network can be used by organizations.

Mr Sheshadri Chatterjee described service of CRM strategy (CRMS), change management process, user experience of CRMS, etc. **Mr Prateek Shah** discussed digital marking vis-à-vis content, cost, image processing, and so on. **Mr Vinkal Chaddha** talked about knowledge management industry and importance of KPMG.

IN CONVERSATION

MR DANISH CONTRACTOR
IBM INDIA PVT. LTD

Your thoughts on the analytics learning content in management libraries?

Analytics for learning content management is growing and has a far deeper impact in the education sector. It helps us to deliver the right information at right time to right user. The indexing mechanism using analytics semantics is much more powerful than ever before.

What are your views on text mining and allied technologies?

The technology is superb in identifying relevant content. Text mining is not just clustering of contents, although it provides more meaningful results to users.

MR TOM DERRICK
THE BRITISH LIBRARY, UK

What you suggest about the reuse of cultural heritage datasets?

We must make datasets reusable while converting the cultural heritage resources in digital format as these gives the users freedom to interact with cultural heritage resources. At the British Council we have made the dataset reusable under the creative common license to make these resources interactive.

Which technique have you been following to conserve print documents?

We ensure the print resources are being handled carefully. We also keep these in humidity-controlled environment. In addition, numbers of conservation techniques have been used to preserve these resources.

MS AMARJEET KAUR GILL
SINGAPORE

What is the scenario of library science education in Singapore?

Singapore offers part-time masters degree courses in library science. Meritorious students could be sponsored for performing well but for further studies or research, they have to go overseas.

How should India move ahead in this direction?

The first stepping stone is capacity building. Therefore, skills enhancement programmes should be conducted.

EXHIBITOR FEEDBACK
MR VINAY SOOD, OXFORD ONLINE JOURNALS

"We have received an overwhelming response. I am a regular participant at ICDL. Massive attendance of foreigners and Indian delegates is its USP which is increasing year to year."