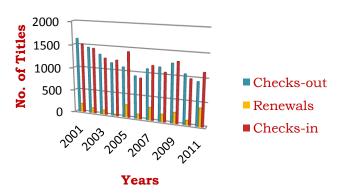
Students & Faculty need Libraries & Librarians in the Age of Internet Library Vs Internet

Christina Birdie
Indian Institute of Astrophysics
Bangalore, India

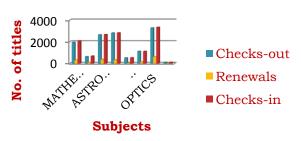
In-house survey @ 11A library

Library use by way of transactions remain constant in the last 10 years....

Transactions 2001-2011



Transactions 2001-2011



Survey conducted on IIA library's contents & services reveals.......

- 66% students & faculty utilized electronic database/articles indexed within the last one year
- 69% reported using library print materials within the last year
- 46% reported using computer access @ the library
- 78% indicated using e-journals available through library
- 22% utilized interlibrary loan services @ library
- 36% used print reserves @library



Extension of 5 laws

Students & Faculty need an ideal library where......



S.R.Ranganathan Father of libraryScince in India

Books are for use

Every book has a reader

Every reader has a book

the library saves the time of the reader

the collection keeps growing

they also need a.....

library for missing links & extended services library aligned with organizations' goal library promoting value added services library connecting with past library reaching out beyond building librarian-in a new avatar....



Technological & Economic shifts have only made libraries more valuable

Evolution of Libraries

- Print library to Online library

- Bound Volumes to Articles Online
 - Pre-prints to IR repositories
 - ISBN/ISSN to IP numbers



everything is not on the web, something is still missing...

If it is not accessible through GOOGLE, it could be in IR.....

- Collaborative library

- individual library to consortium partners
- individual bargaining to collective bargaining

Enhances interdisciplinary collection, strengthens interlibrary collaboration



Library supports scholarly communication

- Libraries address the issue of supporting the faculty & researchers who wish to share their scholarly work for review & comments by providing Institutional repositories as part of the library service
- -Libraries also provide extensive inter library loan service to supplement the resources not held within their own collections
- As a member of the consortium, library provides access to additional online resources which are out of reach for many colleges due to restricted budget
- College libraries pass on the advantage of un-interrupted back-files access to many resources subscribed through consortium to all the bonafide students and faculty (e.g.) UGC-INFONET Digital Library Consortium, INFLIBNET Centre and the INDEST-AICTE Consortium, IIT Delhi



Library enhances the organizations' efficiency

• Integrating within the programs of the organization

- building a comprehensive library collection related to the programs of the organization
- remain as a link in the chain within the management of the organization for technology implementation
- building study centers & branch libraries

• Initiating activities to support the programs of the organization

- align with project teams and extend library support in building collection and services
- creating library websites and connect with users through social network
- extend support in the process of ISO certification of the organization
- resource information on the updates of essential manuals and guides pertaining to different laboratories of the organization



Library enhances the organizations' efficiency

•Innovating new ideas

- use technology to create seamless communication
- convert library from reading room to research center
- introduce techie gadgets for routine functions
- Involvement in promoting the organizations profile
 - -creating institutional profile
 - promoting institution's publications
 - become part of the publication process
 - -resource information on copyright barriers for international collaboration
 - facilitate page charges procedure for publications





Re-living the history

Libraries bring back the memories of the history of an organization in a more systematic and orderly manner. They preserve the heritage well and make it reusable for current research.

Resident and a ce

Research from IIA Archives

Sketches of solar prominences made by John Evershed along with the solar spectrum with which he discovered the Evershed effect, Philished in Resonance, Vol. 14, No.

C. Ragoonatha Charry and variable star astronomy, Rao, N.K., Vagiswari, A., Thakur, P. and Christina Birdie, Journal of Astronomical History and Heritage, Vol. 12, No. 3, pp. 201–210, 2009.



Chintamani Ragoonathachari and contemporary Indian astronomy, B. S. Shylaja, Current Science, Vo. 96, No. 9, 2009, pp. 1271-1273.



Solar eclipses during 1868-1980 in which Madras, Kodaikanal Observatories and IIA participated, Christina Birdie & Vagiswari, A., IIA Newsletter, Vol. 14, No. 2, pp. 14-15, 2009



Michael Topping and the origin of the Madras Observatory, Vagiswari, A., Rao, N.K., Christina Birdie and Thakur, P., IIA Newsletter, Vol. 14, No. 1, pp. 16, 2009.



From the IIA Archives:
Solar Felinese during 1868-1980 in which Madrae Kodaik and Observatories and IIA nationate

Participation in solar eclipse studies have been a notable characteristics of the institute for more than a century. For all major eclipses teams were sent and the expedition met with a considerable degree of success. Table presented here lists the various expeditions undertaken from 1868 – 1980, along with the results obtained.

YEAR, NATURE AND PLACE OF EXPEDITION	TEAM LEADER	EXPERIMENTS/PROGRAMMES	RESULTS
August 18, 1868 Total Solar Eclipse 1.Vasarpan 2.Masulipstam	N.R. Pogson C.Ragoonatha Chary	Spectroscopy Handpainted solar spectrum of the solar actions 1888 showing D3 line	First time spectroscopy applied to solar eclipse. Detection of Hydrogen lines in emission in chromosphere. Observation of yellow line near sodium D line later attributed to Helium
December 12, 1871 Total Solar Eclipse Avinashy	NR Pogeon C.Rapoonsida Chary Fint page of the report prepared by C.Rapomethic Chary in Trail	Spectroscopy Photography Polarization measurements	Observation of bright lines in spectrum. This was the occasion when, what we term the F Corona, was first seen.
June 6, 1872 Annular Eclipse Madras	NR Pogson	Photography Spectroscopy	This is the first observation on record of viewing the flash spectrum at an annular eclipse
January 22, 1898 Total Solar Eclipse Sahdol	M Smith	Photography	White light photo-graphs of different scales were obtained
September 21, 1922 Total Solar Eclipse Wallai Australia	J Evershed Evershed and his wife at the camp site	Photography of the spectrum of the corona on the East & West limits of the green coronal lines due to solar green coronal lines due to solar green coronal lines due to solar the wavelength of this line. To determine an important aspect of Einstein's theory of relativity that could be experimentally verified.	The expedition was not successful due to bad weather



Re-living the history

Research from IIA Archives

Vintage maps in IIA archives, Christina Birdie and Vagiswari, A., IIA Newsletter, Vol. 13, No. 2, pp. 14–15, 2008.

The Indian Institute of Astrophysics has valuable antique maps in its archives. These original maps were published under the supervision of the Society for the Diffusion of Useful Knowledge (SDUK).



J.F.Tennant



Report on Transit of Venus

Historical Observations/Expeditions: Transit of Venus observed in India during 1761 - 2004 Christina Birdie, Prabahar, P & Mohan BS



John Evershed: The Instrument Builder, Bagare, S.P., Vagiswari, A., and Christina Birdie, IIA Newsletter, Vol. 13, No. 4, pp. 6–7, 2008. John Evershed (1864-1956) is well known in astrophysics, particularly in the area of solar physics, for his discovery of the radial motion in sunspots, an effect which bears his name.







The great September comet of 1882 II (C\1882 R1) that transited over the Sun - Pogson's observations from Madras Observatory, Kameswara Rao, N., Vagiswari, A. and Christina Birdie, IIA Newsletter, Vol. 12, No. 2, pp. 3–5, 2007





Reaching the unreachable



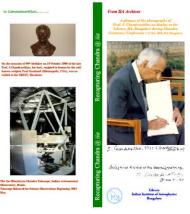
A constant endeavour to reach public to satisfy their curiosity and to better their knowledge



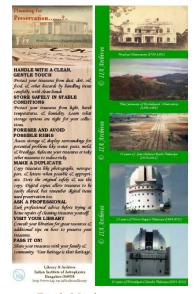
Evershed Effect First Day Cover & Stamp Designed by IIA Library



25 Years of VBT



Chandra Centenary Exhibits



Book Mark on Preservation Week





Transit of Venus by Ragoonatha Chary



Libraries are integral partners in the outreach programs of the organization and they invent new ideas in support of the programs



Beyond boundaries

Facilitate access to distant learners

- -Remote access to students and scholars registered in open universities
- -Facilitate library access to retired senior faculty, visiting faculty & walk-in users
- Extend library facility to students from remote colleges





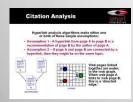
21st Century Librarian – a new avatar



























The presencing was first established in 1706. in 1990, the astronomic Department was formed by the Court of Theretors and were that present at his core-tensies to be a Public office of record bransmitting it amuch operations to the Month locat and the who carried operations to the Month bound brough has re-the September 1800. Sofice of Politice

