

Towards Modernization of Library at VECC

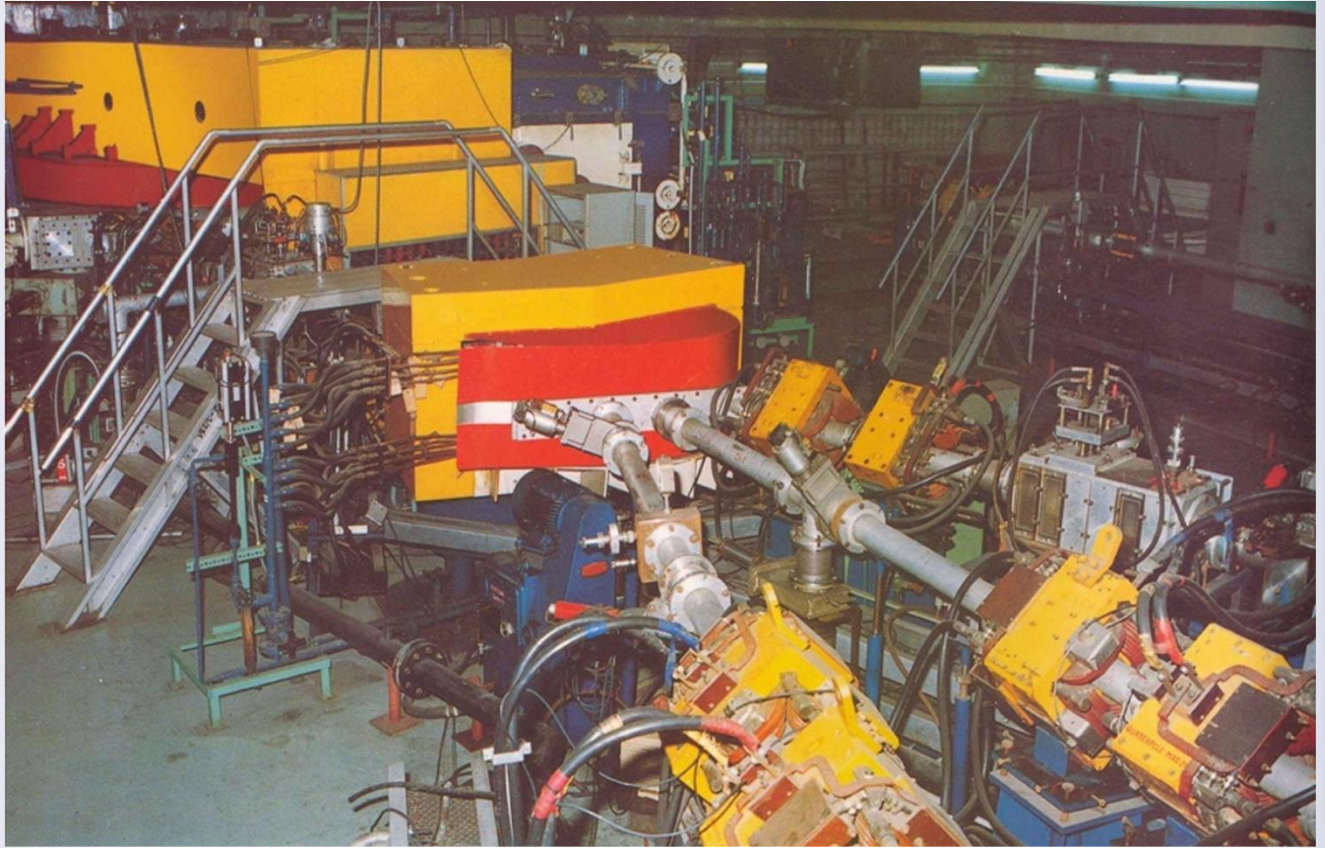
Debranjana Sarkar

Variable Energy Cyclotron Centre (VECC)
Kolkata

A Journey
from
Conventional Library
to
Scientific Information
Resources Facility (SIRF)

Variable Energy Cyclotron

16th June, 1977



Brief History of VECC Library (1970-1979)

- 1970's: VEC was a project of BARC
- 1974: Library of VECP started
 - Around 100 books in a room
 - Area: 30 sq.m. (approx)
 - No journal subscription
 - Around 10 users
- 1978: Shifted to ground floor of Main Building
 - Area: 100 sq. m. (approx)
 - Last Number in Accession Register: 2162
 - Microfiche reader

Brief History of VECC Library (1980-1989)

- 1980: Mistral Package for INIS support
- 1982: Library automation using SOCRATE database on IRIS-80 computer (indigenous development)
- 1984: Library automation using SIBAS database on ND-560 computer (indigenous development)
- 1986: Report about reorganization of Library by Mr. K. N. Pai, BARC

International Nuclear Information System (INIS) Database Service (1980's)

- INIS – world's most comprehensive information system on peaceful uses of nuclear science, technology, energy and environment.
- International Atomic Energy Agency (IAEA) in collaboration with 111 member states and 19 cooperating international organizations produce and manage the INIS database
- Establishes in 1970, INIS database contains 2.4 million + bibliographic records and the annual growth rate is about 80,000 records
- India is a founder member of INIS
- SIRD, BARC is the national inputting centre for INIS database in India since 1970
- In 1980's, INIS Data, recorded in tapes, used to be received from IAEA, Vienna, and converted by a programme to create a modified database to be used by MISTRAL – the Library database of IRIS-80 computer
- VECC was actively involved in providing regular SDI (Selective Dissemination of Information) services to about 300 users of the various units under the Department of Atomic Energy, out of the INIS data base.

Salient points from the Report dated 20.07.1986

- Library holdings
 - Books: 4530
 - Bound Volumes: ~ 3000
 - Standards: ~ 2000
- Budget: Rs. 3 lakh
- Last no. in Accession Register: 7530
- Computerization of data available
- Suggestion: requirement of computer terminals and additional space

Brief History of VECC Library (1990-1999)

- 1999: Use of Libsys-4, an integrated library management software
- In line with the other units of DAE
- The Library Catalogue can be searched on the web – (Online Public Access Catalogue (Web-OPAC))

WEB OPAC screenshot

VECC, Kolkata : Online Catalogue - Mozilla Firefox

File Edit View History Bookmarks Tools Help

VECC, Kolkata : Online Catalogue

10.200.3.28:8080/jopacv06/html/SearchForm

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LSweb OPAC
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Variable Energy Cyclotron Centre Library

HOME | HELP | EXIT

Simple Advanced Additional Browse ISBN No Accession No Full Text Full Text (Article)

Search in Any Field

Books Search word(s) Go Clear Search Tips

CD-Roms connect words as And Go Clear Search Tips

Reports

Conference

Theses/Dissert

Standards

Electronic Book

All Collections

Articles Data

New Additions

Journals

My Account

Check-outs

Reservation

History

Recommendation

Ext. Database

LOC

Notices

Location Map

Feedback

Help Desk

Restrict By

Database Books

Type of Doc Books

PUBLISHING YEAR

All Year(s)

Between [] - []

Upto []

After []

Selected []

Go Clear Search Tips

Sort By

SORT

Sort By Title

UnSorted

LOCATION(S)

My Site

My Location

Go Clear Search Tips

More...

Search Tips

The user can make a simple search using this option. The fields to be entered are:

Database	: Select from the combo box the database on which the search is to be made.
Field	: Select from the combo box the field on which the search is to be made.
Enter word(s) or phrase	: Give the word(s) or phrase on the basis of which the search is to be made.
Connector	: Select from the combo box the connector required between the search words.
Specify Year(s) of Publication	: Give the publishing year(s) within which a search has to be made.

Click Search and the result is displayed. Thus , a simple search can be made on any field, title-wise, author-wise or subject-wise.

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start VECC, Kolkata : On... Document1 - Microsof... zotero EN 12:40 PM

Brief History of VECC Library (2000-2009)

- 2002: Shifted to the Present Building
 - Area: 520 sq. m. (approx)
 - Last Number in Accession Register: 13571
- 2006: Barcode based circulation system using Libsys software package
- 2007: Institutional Repository using Dspace
- 2007: Subscription to online journal (AIP)
- 2008: Hosting of new Library page
- 2009: LS Premia software

Library Webpage (Intranet)

LIBRARY PAGE - Mozilla Firefox

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LIBRARY PAGE

project.vecc.gov.in:8080/library/library.php

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Department of Atomic Energy
Variable Energy Cyclotron Centre

Library

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New / Trial e-Resources

E-Resources

E-Books	Science Direct	Joint Accelerator Conferences Proceedings
E-Journals	Digital Library (DSpace@VECC)	NEW AIP Digital Archive
INIS	CERN Document Server	NEW AIP Conference Proceedings
Indian Standards	Video Lecture Course Materials (NPTeI)	NEW Annual Reviews: Electronic Back Volume Collection
PROLA	MIT Open Courseware	
NEW List of Hindi Books@VECC library	NEW List of Bengali Books@VECC library	

Announcements
[PHOTO GALLERY](#)

Welcome to, Library & Information Services of Variable Energy Cyclotron Centre, Kolkata, India. Library is equipped with modern and requisite infrastructure and aesthetic environment, conducive for carrying out research & development activities in various disciplines of Nuclear science & Technology. The library is continuing its endeavor to provide information to scientists, engineers and researchers within VECC as well as from other institutions.

Library has rich collections of books, journals. The Library is completely automated and provides web access to its large database (OPAC) with more than 25 thousands of bibliographic records of books, technical reports, standards, patents, thesis etc.

We appreciate in receiving your comments and suggestions about our resources, services, library web site. You can [e-mail](#) or contact us on +91-033-23371230 (Ext.No.4238).

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Institutional Repository using Dspace

- Collection, preservation and dissemination of the research output of VECC
- All the scholarly publications are indexed and preserved for easy retrieval through web interface
- Institutional repository is restricted within VECC Campus
- From the year 1974 till date
- 650 journal articles

Institutional Digital Repository of VECC

DSpace at VECC: Home - Mozilla Firefox

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E-Services | Variable Energy Cyclotron C... LIBRARY PAGE DSpace at VECC: Home

172.16.5.19:8080/dspace/ Google

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DSpace at VECC >

Welcome to Digital Repository of VECC

This is the digital repository of research output of the Variable Energy Cyclotron Centre, Kolkata India, developed to capture, disseminate and preserve research publications of VECC. You can search, browse and access full text of these publications from the repository.

our open access repository is created to accommodate all the institute's publications, we have decided to include the archival contents which are out of copyright in the repository for better access..

Search

Enter some text in the box below to search DSpace.

Communities in DSpace

Choose a community to browse its collections.

- [1. Institutional Repository of VECC](#)
- [2. Homi Bhabha National Institute \(HBNI\)](#)

< December 2013 >						
S	M	T	W	T	F	S
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Institutional Digital Repository of VECC

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Communities and Collections

Shown below is a list of communities and the collections and sub-communities within them. Click on a name to view that community or collection home page.

- **[1. Institutional Repository of VECC](#)**
 - [Booklets/Brochures/Pamphlets](#)
 - [Conference Publications/Proceedings](#)
 - [Dissertations and Theses](#)
 - [Newsletters](#)
 - [Progress Reports](#)
 - [Published Articles](#)
- **[2. Homi Bhabha National Institute \(HBNI\)](#)**
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 - **[Dissertations and Theses](#)**
 - [M.Tech.](#)
 - **[Physical Sciences](#)**
 - **[Dissertations and Theses](#)**
 - [Ph.D.](#)

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172.16.5.19:8080/dspace/handle/123456789/168

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Institutional Digital Repository of VECC

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DSpace at VECC: Browse by Title

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or enter first few letters:

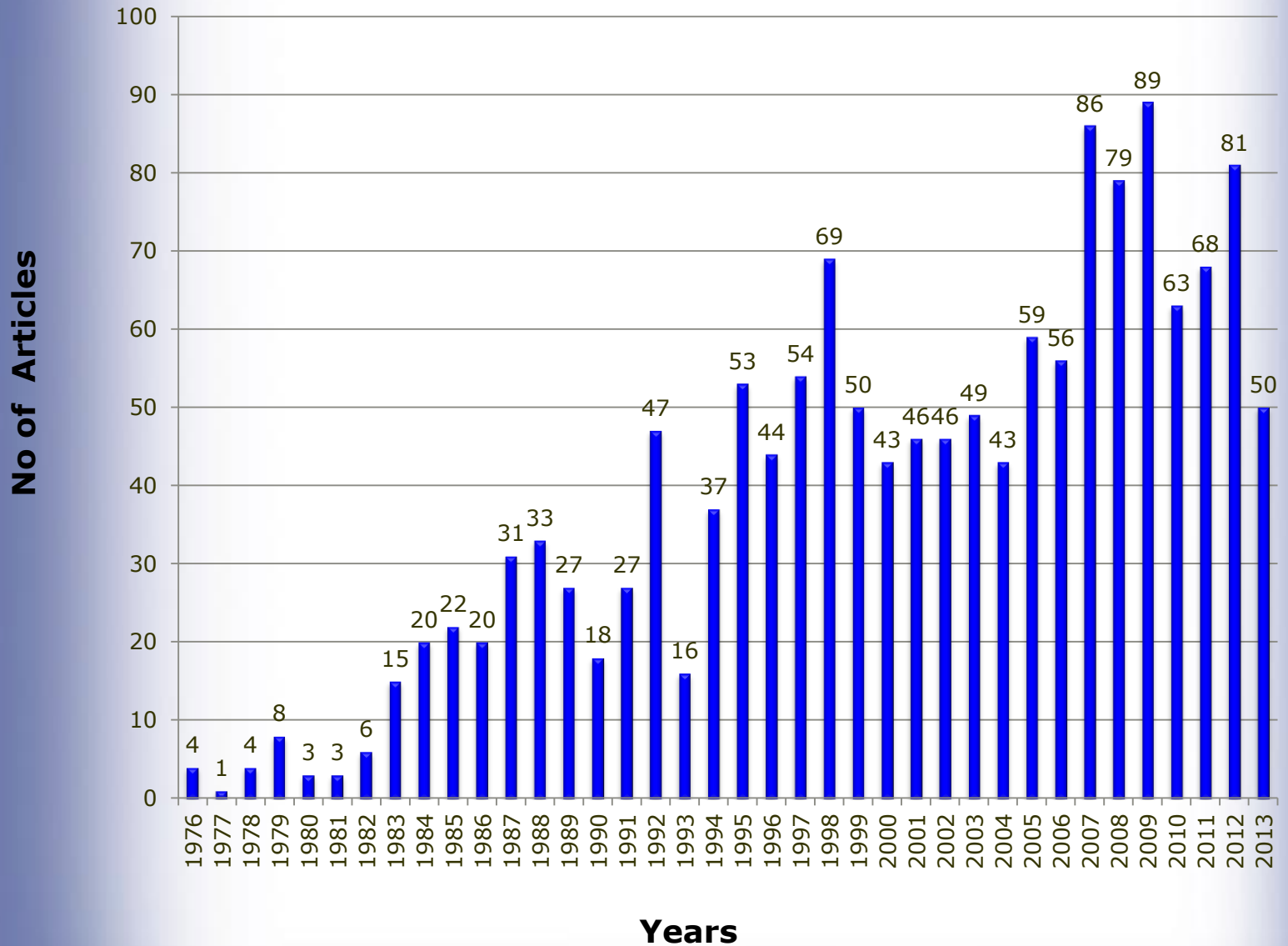
Showing items 1-21 of 299. [Next page](#)

Issue Date	Title	Author(s)
1973	224 CM Variable Energy Cyclotron at Calcutta	Ambasankaran, C; Phadke, D. Y.
Feb-1985	Accelerator development in India	Divatia, A S; Ambasankaran, C
Dec-2007	Activation foils unfolding for neutron spectrometry: Comparison of different deconvolution methods	Tripathi, S.P; Sarkar, P.K; Sunil, C
Apr-2007	Alfa decay chains from element 113	Roy Chopwdhury, P; Basu, D.N; Samanta, C
17-Jun-1985	An alpha-nucleus optical potential using a realistic effective interaction	Chaudhuri, A.K; Basu, D.N; Sinha, Bikash
17-Dec-2012	Analysis and measurement of high power vacuum-tube RF transmitters: Matrix method	Pandey, Hemendra Kumar; Alok, Chakrabarti
Jun-2003	Analysis of neutron emission spectra for 30-50 MeV alpha-particle induced reactions in thick targets	Dhar, D; Roy, S.N; Nandy, Maitreyee; Sarkar, P.K
Sep-1987	Angular momentum saturation in 209(alpha, 2n)reaction	Mukherjee, P; Mukherjee, I; Sen, P; Samanta, C
Mar-2003	Approximation of digital curves with line segments and circular arcs using genetic algorithms	Sarkar, Biswajit; Singh, Lokendra K; Sarkar, Debranjana
Jan-2006	Astrophysical S17(0) factor from a measurement of the 2H(7Be,8B)n reaction at Ec.m.=4.5 MeV	Ray, Amlan; Das, J.J; Datar, V.M
20-Aug-2012	AVlasov equilibrium for space charge dominated beam in a misaligned	Sing babu, P; Goswami, A; Pandit, Vijay Shanker
Jul-2009	Band structures in near spherical 138Ce	Bhattacharjee, Tumpa; Bhattacharyya, S; Basu, S.K
Jun-2006	Behavior of space charge dominated beam in a high-current compact cyclotron	Goswami, A; Sing Babu, P; Pandit, Vijay Shanker

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Year Wise Institutional Digital Repository of VECC



VECC Library (2010-2013)

- 2010: RFID Based Circulation system implemented
 - About 17,500 titles
 - Security gates
 - Self Check-in / Check-out station
 - Issue/return of multiple books simultaneously
 - RFID Staff workstation
 - Inventory Reader for shelf management and stock verification
 - Sorting and locating books
- 2011: CCD Dome Camera for Surveillance

RFID Based Self Check- Out/ Check- In Kiosk



Collections at SIRF, VECC as on December 31, 2013

▪ Books	7326
▪ Conference Proceedings	1221
▪ Technical Reports	325
▪ Standards	2173
▪ CD/DVD	179
▪ Thesis / dissertations	54
▪ Bound Volume Journals	6512
▪ TOTAL	17790

SIRF, VECC as on today

- Area 520 sq. m. (approx)
- Number of users: 559
- The collection includes latest publications on
 - Accelerator science and technology
 - Nuclear science and technology
 - Different branches of engineering
 - Mechanical, Electronics, Electrical, computer etc.
 - Material science
 - Physical, chemical & environmental sciences etc...

SIRF, VECC as on today

- Access to 1800+ electronic journals in accelerator science, nuclear science and allied fields
- Subscription to 92 journals
- Open access system
- Universal Decimal Classification (UDC) scheme
- Anglo American Cataloging Rule II
- Completely automated
- Web access to its database (WEB - OPAC) containing ~18,000 bibliographic records

E-RESOURCES

- **E journals**
- **E books**
- **AIP Conference proceedings**
- **AIP digital archive.**
- **Full-text journals (Science direct)**
- **Physical Review Online archive**
- **IEEE for HBNI (INDEST-AICTE Consortium)**

SERVICES

- Current Awareness service
- Document delivery through e-mail
- Article indexing
- Inter library Loan
- Web-OPAC, a powerful search engine for searching the holdings of library

Electronic resources

- AIP Digital Archive
- Elsevier's Science Direct
- PROLA
- Annual Reviews: Electronic Back Volume Collection
- Indian Standards on DVD-ROMs
- International Nuclear Information System (INIS)

Library Services

- Circulation Services
 - Membership Registration
 - Check-out, Check-in
 - Renewal of books
 - Library Fine collection
 - Overdue alert service
 - Reservation alert service
 - Issue of No Due Certificate
 - Lost book Recovery

Library Services

- Orientation programme for in-house users
- Literature searches/ Document Supply
- Selective Dissemination of Information
- Content- Page Service
- Reference Service

E- Resources

- AIP Conference Proceedings (1970 – till date)
- AIP Digital Archive (1930-1998 Back file)
- Annual Reviews (All articles before 2007)
- Science Direct (DAE Consortia)
- PROLA
- Standards Collection (Indian Standards)
- Electronic Database (International Nuclear Information System)

Development of *GranthaSahayak*, an Integrated Library Management Software

- ❖ **No Vendor Lock-in**
- ❖ **Cost-effective** (No License fee and AMC Charges)
- ❖ **Comprehensive functionality**
 - ❖ Circulation
 - ❖ Cataloging
 - ❖ Acquisitions etc.
- ❖ **Complete automation with RFID tags**
- ❖ **Library standard compliant**
- ❖ **Adaptability and user friendliness**
- ❖ **In use worldwide in libraries of all sizes including academic libraries.**

Future Plan

- Fully Digital Library
- Development of Library Management software using Open source for the DAE units
- Building knowledge centre for Accelerator community
- More consortia among DAE units

Thank you