# Tharangam

# SOUVENIR

Issued on the occasion of the celebration of the

Foundation Day

of the

**Central Marine Fisheries Research Institute** 

(Indian Council of Agricultural Research)

4th February 2002



# **CMFRI Recreation Club**

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## DIGITAL LIBRARIES IN FISHERIES

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#### Introduction

"Burn a CD-ROM, save a TREE"

Libraries are expensive and Research Libraries are particularly expensive. No Library can be self sufficient because of insufficient funds and information explosion. But in modern times 'No Library is an Island'. Because the information scientist share a long tradition of co-operation and interaction with networking libraries in their subject. Therefore, the IT age is forcing and compelling the libraries to undergo resource sharing through networks. The new technology has not only transformed the information to the modern libraries but also created many exciting possibilities and opportunities.

#### Digital Libraries

We are living in an information society with.

Radio, Television, Computers, Communication satellites, Cable TV, Multimedia, Local and Wide Area Networks. In the recent past we described some capes like 'Digital Library', 'Virtual Library' or 'Electronic Library' and 'Hybrid Library'.

The Digital oraries don't mean Libraries in the classical sense but a network of multimedia systems. Digital Library is called digital object that includes text, audio, video image, computer programmes, graphics, 3-D effect and multimedia components in digital form. The resources in Digital Library can be divided into those that are originally created in a digital format such as electronic journals, e-books etc. and now most of the ancient manuscripts, books, reports and expeditions like Valdivia and Sibago respectively were very old and unusable conditions that are subsequently digitized.

In India, the concept of Digital Library is

in the budding stage. The INFLIBNET is established to provide digital information to the participating libraries. In academic Institutes, it is very probable that the University of Hyderabad will establish the first Digital Library in the Country. The Indian Institute of Science, Bangalore Library is the first R & D digitized library in India and more than 250 theses have been converted into the digital form. The Current Science Journal is publishing in online.

Till recently the Hard Disk storage was in Giga Byte. But now in Digital Library storage in Tera Byte (10<sup>12</sup>) has become common. If pages of books are scanned as images, one million books with an average 250 page per book will require 25 Tera Byte of storage. To build Digital Library that are inexpensive for users requires dramatic and substantive reductions in the cost of materials and of staff.

# A Digital Library requires the following components:

- Adequate PCs with vast memory
- CD-ROM Drives and LAN
- Databases and digital library management software
- Servers, Work Stations and access terminal
- Internet Services
- Digital Camera with Multimedia kit
- Well trained manpower etc.

#### Benefits of Digital Library

- to provide access to very large collection
  - to support multimedia

- to provide link to different digital objects
- to support traditional library, organisation access and preservation
- to support publishing e-journals, ebooks and integration of new information
- Network accessible
- to provide user friendly interface
- Support advanced search and retrieval etc.

In Digital Library the internet, particularly the WWW is most important technological advancement that has revolutionized the way people access information more and note information are put on Internet all over the world. So, many information materials are going to be available only in the web. Many electronic journals and books came into existence. Many publishers are turning to electronic publication of books and journals. Web publishing can be done with case and is vastly developing. The Online Computer Library statistics state that up to October, 2001 there are 84 lakhs Websites are in the Web.

## Web Vs Digital Library

- Web and Digital Library performs same function
- Both collects maintain and disseminate information ideas and knowledge
- Web is vast storehouse of information like a Digital Library
- · Web grows faster than any library
- Considerable information exist in print form outside the web
- Both need to be integrated for better information access.

### Digital Library websites in Fisheries

www.fao.org

www.nfi.org/whitepapershrimpfarming.html

www.cdc.gov/ncidod/aboutre.htm

www.asean.fishnet.gov.sg

www.nal.usda.gov/aic

www.seaweed.ucg.ie/seaweed.html

http://www.stir.ac.uk

http://www.inflibnet.ac.in

http://www.dal.ca/daltech/library

http://www.inasp.org.uk

www.scilib.ucsd/sio/guide/ejournallibrary.usask.ca/ejournal

www.was.org

#### **Electronic Journals and books**

An E-journal's as 'one created for the electronic medium and available only in this medium'. The first scholarly electronic journal published in 1979. Knowledge explosion is the factor of advantages for the development of the electronic journal.

#### Advantages of electronic journals

- e-journals allow for more speed in the scientific communication process
- · electronic articles are not limited in size
- If possible to add experimental data software with multimedia extension
- Articles can be linked with the body of scholarly literature
- e-journals demand no library space nor shelving costs nor can they be stolen from the library
- e-journals are 24 hours a day, 7 days a week etc.

Electronic journals are a solution to the serials pricing crisis, which is gradually changing and perhaps Eroding the role of libraries. The central nation here is the e-journals can potentially be cheaper produced and distributed than their printed journals. The importance of the de-

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velopment of Digital Library is to look at the activities of commercial publishers. The Elsevier's Electronic and implementation aiming a making all the 1100 Elsevier journals available electronically, John Wiley 326 journals, Blackwell 125 and Academic Press 175 Journals

#### Examples of electronic journals

http://www.nrc.ca/cisti/journls/cjfas.html -Canadian Journal of Fish. Aqua.Science

http://www.ioa.com/home/aquamag/ - Aquaculture Magazine Online

http://www.blackwell-science.com/anu-

#### Aquaculture Nutrition

http://www.elsevier.com/locate/aqua-online - Aquaculture

http://link.springer.de/link/service/journals/ 10512/ -Helgoland Marine Research

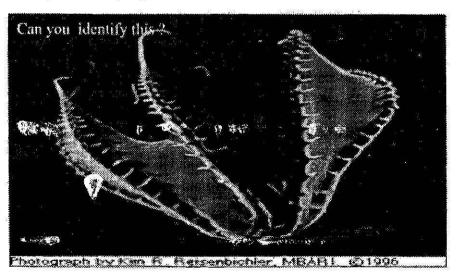
http://tejas.serc.iisc.ernet.in/~currsci- Current Science

http://www.swfsc.ucsd.edu/tunanews - Tuna News Letter

http://www.ejb.org - Electronic Journal of Biotechnology etc.

# Believe it or not.....

Cowry shells were important in burial rituals in ancient China. When the emperor of China was buried in those early times, his mouth was stuffed with nine cowries! Feudal lords had seven, high officers five, and ordinary officers three. Common people generally had their mouths stuffed with rice. But if a commoner had some wealth, the last molar of each side of the mouth was supported by a small money cowry. This was to ensure that the dead had plenty to eat and spend in the afterlife.



Answer to picture identification: It is an inverted octopus which is populatly called varieties octopus or devil of the sea. This has hooks on the arms and a skirt - type web.