

Third Indexing Course

The third training course in 'Indexing', organised by DESIDOC, was held at the Electronics Research & Development Establishment, Bangalore from 6 to 16 May 1981, for the benefit of information scientists working in DRDO Labs/Estts located in and around Bangalore. The Course was inaugurated by Dr. M. Krishnamurthi, Chief Controller, Research & Development. Dr. Ramdas P. Shenoy, Director, LRDE also addressed the participants on the occasion. Shri S.S. Murthy, Director, DESIDOC, in his address explained the aims and objectives of the Course.

Besides the lectures and practical assignments, audio-visual demonstration of 'Science Citation Index' was arranged to familiarize the participants with this important information tool. Visits to information centres of LRDE and NAL at Bangalore were also arranged.

The faculty was provided by DESIDOC and comprised S/Shri V.K. Rangra, Scientist 'D' and U.R. Sharma, Scientist 'B'. Special lectures were delivered by Shri M.N. Seetharaman, Officer-in-Charge, Information Centre for Aeronautics, NAL. Dr. G. Bhattacharyya, Prof & Head, DRTC, Prof. M.A. Gopinath and Shri F.J. Devadason also of DRTC, Bangalore.

The Course covered the following topics :

1. Indexing techniques
2. Contents analysis of documents and layout of index entry

3. Keyword based indexes
4. POPSI
5. Searching technique
6. PRECIS
7. Evaluation of indexing system
8. Principles of indexing
9. Pre-coordinate and post-coordinate indexing
10. Indexing languages and use of thesaurus
11. International indexing systems
12. SCI tape demonstration
13. Fast access information retrieval (FAIR)
14. Indexing for computer aided system
15. Management and planning of indexing system.

The Course was found useful by the participants as seen by the feedback provided by them in writing, at the end of the Course. Certificates were awarded to the participants after successfully completing the Course.

Shri V.K. Rangra was the Course Director.

Union Catalogue of Periodical Holdings

The information for compilation of Union Catalogue of Periodical Holdings of the DRDO Labs/Estts was obtained from the following more Estts :

DMRL, Hyderabad
NCML, Bombay

IAT, Pune
CRE(AA), Pune
CRE(Aircraft), Bangalore
DFRL, Mysore

Efforts were continued to obtain the data from the remaining Labs/Estts. The queries raised by certain laboratories were clarified.

Simplified Library Procedure

The Committee formed to suggest simplified procedures for various library operations in DRDO, held quite a few meetings for working out the necessary details. It also discussed the response to the questionnaire sent by it, received from 16 DRDO Labs/Estts and also considered other alternatives to obtain the information from the remaining Labs/Estts.

The Committee members visited the libraries of NPL, INSDOC, IARI, New Delhi and also the National Medical Library and studied the procedures being followed by them.

Information Dissemination Service

* Periodical literature was scanned for selection of latest developments on science and technology in China and Pakistan. Twenty such items were disseminated to the scientists concerned through our publications 'Spot News on China' and 'Science & Technology in Pakistan'.

* Newspaper clippings numbering 214, reporting Indian Press on DRDO, Defence, and Science & Technology were brought to the notice of top management at DRDO HQ.

* Reprints of an article 'Scientific periodicals and other problems and future prospects' by S/Shri S.N. Mehta and Satyapal Gupta of DESIDOC were supplied to information scientists in Telco, Insdoc trainees, etc on request.

* About 20 articles were abstracted from Russian and Japanese scientific periodicals received in the Defence Science Library and disseminated to users through the quarterly bulletin 'Science Abstracts from Foreign Languages.'

Information Querries Answered

* Information on the following subjects was collected and supplied to the Labs/Estts on their request:

1. Torpedoes
2. Sonars
3. Oceanography
4. New fighters
5. Science & Technology in Argentina.

* A list of secondary source materials and translations giving data on holdings of Defence Science Library was provided to JNU Library on their request.

* INSDOC was provided with the information on additions/deletions in the list of periodicals subscribed by Defence Science Library during 1979 and 1980.

New Acquisitions

Fifty-four books and 415 reports, patents, etc. were added to the collection of Defence Science Library (DESIDOC) during April and May 1981.

Publications Loan Facility

Besides the scientists in the Metcalfe House Complex, the Dtes in the DRDO HQ and also the Labs/Estts were loaned the publications required by them. 683 publications comprising 349 books, 295 journals and 39 reports were loaned during April and May 1981. Some of the Labs/Estts to whom this facility was provided were CRE(A), Pune, LRDE, Bangalore, PEE Balasore, SA to CAS and DLRL, Hyderabad.

TRANSLATION ACTIVITIES DURING APRIL & MAY 1981

Books/Articles Translated

Sl. No.	Title/Author	Indenting Unit	Pages Translated
RUSSIAN			
1.	GOST 17023-74 Instruments for amplitude-frequency response investigation; Types and basic parameters, technical requirements.	DTD&P(AIR)	29
2.	GOST-13605-75 VHF, UHF and microwave wattmeters; Technical requirements, test methods.	-do-	13
3.	Physical metallography of titanium by B.A. Kolachev; Chapter II—Defects of crystal structure of titanium and its alloys.	DMRL, Hyderabad	42
4.	New findings on production of composite materials based on elastomers by V.F. Evstratov and others; Vyssokomolekulyarnye Soedineniya, 21 1979, 2415-2423.	NCML, Bombay	9
5.	Phase diagram of polymer macromolecule containing mesogenic groups by A. Yu. Grasberg; Vyssokomolekulyarnye Soedineniya, 22, 1980, 100-104.	NCML, Bombay	5
6.	Radio echo sounding of spitsbergen glaciers from helicopter by Yu. J. Macheret & A.B. Zhuravlev.	Snow & Avalanche Study Estt (SASE)	44
GERMAN			
1.	Pulse method for the measurement of reflection of absorbers for water-borne sounds in tubes by W. Kahl & others.	NPOL, Cochin	13
2.	The chassis of Leopard 2.	CVRDE, Madras	8
3.	Combat tank—its future.	-do-	5
4.	Flow transfers and landing distances in respect of avalanches.	SASE	12
5.	Technical possibilities of mobility in water	Dte of Engg.	12
6.	New fire extinguishing vehicles.	SA to CAS	7
7.	A paper on the etching of GaAs by H. Neels & R. Muller.	SPL, Delhi	3
8.	Development of a turbocharged Otto engine for use in road vehicles with a specific volumetric-efficiency of 73.5 kW/litre by F. Indra.	VRDE, Ahmednagar	6
9.	Hardening of face-centered cubic (FCC) metals and alloys with low stacking fault power through shockwave effect by H. Richter.	TBRL, Chandigarh	9

JAPANESE

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| 1. Recent topics in polymer chemistry by S. Nagai & H. Inoue. | DSC, Delhi | 8 |
| 2. Preparation of polyamide-imide from phosphorus—containing bis-imide anhydride and aromatic diamines by Seita, <i>et al.</i> | DSC, Delhi | 7 |
| 3. Recent methods for characterization of thermosetting resin polymers (Selected portions only). | DSC, Delhi | 4 |
| 4. Some approximate method for estimating the interior noise of aircraft by R. Sasaki, <i>et al.</i> | SA to CAS | 8 |
| 5. Application of fourier transformation to the lifting surface theories by S. Audo & A. Ichikawa. | Res. Tech. Engr., Bangalore | 6 |
| 6. Analysis of swirling flow in a tube with non-uniform cross-sections (Pt. II) by Y. Nakamura & S. Uchide. | -do- | 6 |
| 7. Advances in computer architecture by H. Izuka. | LRDE, Bangalore
EDP Cell
IRDE, Dehradun | 11 |
| 8. Effect of mineral salts on the growth of <i>Oniomelania Nosophors</i> Eggs by H. Nijima & D. Katemine. | DRDE, Gwalior | 11 |

FRENCH

- | | | |
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| 1. Evaluation of the gyroflex KEARFOTT type, model II; Report No. 209-NT No 1/SIE. | DRDL, Hyderabad | 40 |
| 2. Evaluation of the aircraft design with auto-control. | CRE, Nasik | 4 |
| 3. Radar echo determination on board the aircraft. | DLRL, Hyderabad | 9 |
| 4. Action of twist on static movement. | SA to CAS | 11 |

Bibliography

A bibliography on 'Counting and Sizing Measurements of Particle Size' has been compiled by Shri S. Parthasarthy and Miss M.S. Tatke of ERDL, Pune. It contains 60 references on the subject.

Reprographic Activity

6589 repro-copies were made during April and May 1981 on demand from the scientists in the Metcalfe House Complex and also from the other DRDO Labs/Estts.

48 slides were prepared for SPL, DSC and CCR&D Audio-visual facility was provided four times for SA to RM.

Printing Activity

Printing facility was provided to the DRDO HQ, including Dte of Planning and Resources Management, DSE and to the Divisions of DESIDOC. Twenty-four printing jobs involving about 16640 impressions were completed during April and May 1981.

Cash Awards for Best

DSJ Papers

In order to encourage scientists to contribute high quality research papers and critical reviews to DEFENCE SCIENCE JOURNAL (DSJ), an AWARD of Rs. 500/- each will be made for the best two papers (either research papers or critical reviews) published in each issue of the Journal. Communications in all disciplines of science having a bearing on Defence problems are published in the Journal. Papers of applied nature will be preferred. The review papers should cover the state-of-art in the subject areas of Defence interest.

The Award is open to the scientists/technologists of DRDO, and other organisations as well.

Contributions for publication be sent to :

The Chief Editor
Defence Science Journal
Defence Scientific Information & Documentation Centre
(DESIDOC),
Metcalfe House
DELHI-110054

Professional Activities

Shri M.C. Bandyopadhyay, Scientist 'A' attended the Summer School for Technical Translators (Russian) organised jointly by the Foreign Language Section of the Indian Institute of Science and Translation Unit of the National Aeronautical Laboratory, Bangalore from 6 to 21 May 1981.

DEFENCE SCIENCE JOURNAL

The Defence Science Journal is a quarterly publication issued in the months of January, April, July and October.

The Journal publishes research papers in the various disciplines of science and technology which by and large lead to tangible results for direct Defence applications. Review papers which cover topics clearly bringing out the interactions of science and technology with Defence are also included. Short Communications or Research Notes are also accepted for publication in the Journal.

Communications and Editorials

Contributions for publication in the Defence Science Journal should be addressed to :

THE CHIEF EDITOR
DEFENCE SCIENCE JOURNAL,
METCALFE HOUSE,
DELHI-110054.

Subscription and Sales

Copies can be had on payment of subscription in advance by crossed cheque or M.O. from :

THE DIRECTOR
DEFENCE SCIENTIFIC INFORMATION &
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METCALFE HOUSE, DELHI-110054.

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