

## Second Training Course in Indexing

The Second Training Course in Indexing was held at DMRL, Hyderabad from 29 Dec 1980 to 8 Jan 1981. The Course was intended for information personnel of the DRDO Labs/Estts located in and around Hyderabad. Twelve trainees drawn from Technical Information Centres of DMRL, DRDL, DLRL, RTO (Dte of Aero), and NSTL participated in the Course.

The Training Course was inaugurated by Shri N.T. George, Director II, DMRL. In his address, Shri George stressed the need for such courses and expressed the hope that the training would bring about uniform practice in indexing and help in better utilization of library resources in the Technical Information Centres.

Earlier, addressing the participants, Shri S.S. Murthy, Director, DESIDOC emphasised the importance of indexing and described it as a basic operation for all the information activities. He hoped that the participants would acquire the necessary skill and have exposure to the new techniques to achieve consistency and uniformity in indexing. This course would also help them to provide the standardised input for the computer-based Defence Science Information System (DESIS) when it comes into operation.

Dr. V.S. Arunachalam, Director, DMRL delivered the valedictory address. He referred to the vital role played by information in the advancement of R&D activity. He stressed the need of keeping the libraries and information centres clean, tidy and quiet and described them as workshops for intellectual pursuit.

The syllabus of the training course covered the following topics :

- i) Indexing techniques.
- ii) Content analysis of documents.
- iii) Indexing languages and use of thesaurus.
- iv) Precoordinate and post-coordinate indexing.
- v) Keyword-based indexes (KWIC, KWOC).
- vi) Searching techniques.
- vii) Indexing for computer-aided systems.
- viii) International indexing systems (INIS, AGRIS).
- ix) Evaluation of indexing systems.
- x) Planning and management of indexing systems.

The practical assignments included :

- i) Content analysis and standardisation of keywords using thesaurus.

- ii) Subject classification—assignment of class numbers by UDC.
- iii) Construction of coordinate index file.
- iv) Construction of chain index and KWIC index.
- v) Literature searching on problems pertaining to metallurgy, electronics and missile technology by using published indexes.

The faculty comprised Sarva Shri V.K. Rangra, Scientist 'D' and U.R. Sharma, Scientist 'B' of DESIDOC, and Prof. T.N. Rajan and Prof. B. Guha of INSDOC. Shri V.K. Rangra acted as the Course Coordinator.

Course material in the form of lecture notes covering the above topics was given to the trainees for basic reading. Besides lectures, audiovisual demonstration on Science Citation Index was arranged through M/S Allied Publishers. Visits to Information Centres at BHEL Corp. R&D Divn. and Small Industry Extension Training (SIET) Institute, Hyderabad were arranged to familiarise the trainees with the techniques adopted by these centres. The trainees were awarded certificates after completion of the course requirements.

The next course will be held at LRDE, Bangalore from 6 to 16 May 1981.

## Simplified Procedures for Libraries

A sub-committee comprising Shri S.N. Mehta, Scientist 'D', Shri Ram Kishore, Scientist 'C' of DESIDOC and Shri P.K. Sharma, Scientist 'B' of SSPL, Delhi was formed at the 2nd Meeting of the Officers-in-Charge of DRDO Libraries/TIC's held at DESIDOC on 2-3 December, 1980 to study the administrative and technical procedures in the Libraries/TIC's, and draft a working manual of simplified procedures for libraries.

The committee held two meetings on 2 and 27 February, 1981 and finalized a questionnaire in its first meeting which was sent to all the DRDO Labs/Estts for completion and return. The completed questionnaire has been received from 26 Labs/Estts.

### Bibliographies Prepared and Supplied During January, 1981

Topic	To
1. Reconnaissance Aircraft and Sensors	DNRD
2. Nuclear/Biological/Chemical Warfare	INMAS

### 27th All India Library Conference

Sarvshri V.K. Rangra and S.N. Mehta, Scientists 'D' and U.R. Sharma, Scientist 'B' of DESIDOC attended the 27th All India Library Conference held at Hyderabad during 9-12 January, 1981. The Conference was inaugurated by Shri Bhattam Srirama Murthy, Minister for Libraries, Andhra Pradesh.

In his inaugural address, Shri Murthy called for allocation for library services in proportion to the budget on education, to ensure accelerated development of the library movement in the country.

## TRANSLATIONS

### I. BOOKS/ARTICLES TRANSLATED

Title/Author	Indenting Unit	Pages Translated
<b>GERMAN</b>		
1. Modulation, encoding, security of communication and trunking scheme of mobile radio service (NTZ, 31(1978), 3).	LRDE, Bangalore	5
2. Systems of gear fits, backlash, deviations and tolerances of teeth thickness, general basis (DIN 3967, Aug 1978).	-do-	24
3. Modern logistics—an important component of system planning (MBB—Aktuell No. 10, Oct 80, pp. 3/4).	SA to CAS, New Delhi	2
4. The Federal Institute for snow and avalanche research at Weissfluhlech in Davos (Brochure published by the institute; 1980 edition).	SASE	54
<b>RUSSIAN</b>		
5. Solution of two-dimensional inverse problem of radio echo surveys of ice thickness and subglacial topography of mountain glaciers by means of computers.	SASE	16
6. Determination of ice volumes of mountain glaciers according to the data of radio echo sounding from a helicopter.	do-	18
7. Method of determining the characteristics of snow-cover for territories, which have not yet been studied.	-do-	10
8. Determination of probabilities of after-effects of the aircraft system failure when estimating the safety level of flights.	SA to CAS, New Delhi	5

(Contd. on page 3)

The working sessions of the conference were devoted to the following topics:

- A second look at the library legislation in India,
- Stock verification of reading material in libraries: its concept, rationale, methods and practices.

Shri S.N. Mehta, described briefly the stock-taking procedure adopted at Defence Science Library.

#### Union Catalogue of Periodicals

The compilation of the Union Catalogue of Periodical Holdings of the Defence R&D Labs/Estts is in progress. The following DRDO

Labs/Estts have supplied the information upto the year shown against each:

SAG, Delhi (1979); ABEU, Bangalore (1978) DMSRDE, Kanpur (1979) and RDE (E), Pune (1979).

Information about 1750 periodicals received in Defence Science Library has been compiled on the forms.

#### 2nd ISIS User Seminar

Sarvshri V.K. Rangra, Scientist 'D' and Ambrish Kumar, Scientist 'B' of DESIDOC attended the 2nd ISIS User Seminar held at Vishva Yuvak Kendra, New Delhi on 5 March, 1981.

**Information Disseminated  
During January, 1981**

	<i>Nos.</i>		
1. Indexed Items		5. Missile Technology	1
DESIDOC List	114	6. Naval Problems	2
Defence Reports		7. Nuclear Warfare	1
Abstracts	72	8. Radar	1
Patents Abstracts	64	9. Science Policy and Planning	1
2. Newspaper Information Items		10. Armament	2
Indian Press on DRDO	10	11. Energy Resources	2
Spot News on China/ Pakistan	25		
3. Information Queries Answered—R&D HQ	5		
		<b>Information as Basic Input for Development</b>	
		Shri S.S. Murthy, Director, Shri V.K. Rangra and Shri S.N. Mehta, Scientists 'D' of DESIDOC partici- pated in the panel discussion on 'Information as Basic Input for Development' organised by the Indian Association of Special Libraries and Information Centres (IASLIC) at Indian National Science Academy, New Delhi on 17 Feb, 1981 to celebrate the Silver Jubilee year of IASLIC.	
<b>SDI Bulletins Prepared and Supplied During January, 1981</b>			
1. Materials	1		
2. Military Aircraft	3		
3. Military Electronics	2		
4. Military Organisa- tion and Warfare	4		

**JAPANESE**

9. Buckling of cylindrical sandwich shells with closed ends under uniform external pressure.	ADE, Bangalore	5
10. Analysis of the flow in laser cavity.	IRDE, Dehradun	6
11. A study on pressure waves caused by underwater borehole blasting, (2) pressure wave caused by carter blasting.	TBRL, Chandigarh	7
12. On the countermeasure of the electrostatic charge in the explosive manufacturing process.	Explosives Safety Group	7
13. The ignition of fuse head of the E.B. cap by electrical spark.	-do-	4
14. Burning rate regime of solid propellants.	ERDL, Pune	10
15. XE 1 SPC international telephone switching system.	LRDE, Bangalore	19

**FRENCH**

16. Hydrodynamic theory of shaped charges and of jet penetration.	TBRL, Chandigarh	35
17. Centering process of the optical surfaces.	IRDE, Dehradun	9

**II. ABSTRACTS PREPARED**

A total number of 20 articles (Russian 14, German 6) were abstracted from scientific periodicals received in the Defence Science Centre Library for publication in the quarterly bulletin 'Science Abstracts from Foreign Language Journals.'

**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),  
Metcalf House,  
DELHI-110054.

**Reprographic Activity**

Reprocopies and slides numbering 2805 and 12 respectively were prepared and supplied during January 1981. Besides, photographic coverage was provided to the visit of dignitaries to Defence Science Library, and the 'Opening Ceremony' of the building of Defence Institute of Fire Research, Delhi. The slide projection was also arranged at SA's Secretariat, New Delhi.

## 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 &  
DOCUMENTATION CENTRE (DESIDOC),  
METCALFE HOUSE, DELHI-110054.

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	<b>Inland</b>	<b>Foreign</b>
Annual (From 1 April to 31 March)	Rs. 8'00	£ 0'93 \$ 2'88
Single copy	Rs. 2'00	£ 0'23 72 cents

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