

L. INDIA INSTITUTE OF SPEECH AND HEARING
MANASAGANGOTRI
MYSORE 570 006

ANNUAL REPORT
1992-93

CONTENTS

		<u>Page</u>
1. Introduction	-	01
2. Objectives	-	03
3. Governing Authorities of the Institute	-	06
4. From the Desk of the Director Highlights 1992-93	-	09
5. Training	-	12
6. Clinical Services	-	16
7. Action Plan	-	22
8. Research Activities	-	34
9. Equipment procured during the year	-	48
10. Material Development	-	49
11. Short-Term Courses	-	51
12. Staff Activities	-	53
13. Library & Information Centre	-	61
14. Accounts	-	62
15. Official Language Implementation Unit	-	64
16. Guest House & Dharmashala	-	65
17. Personnel Cell - Visitors	-	66

INTRODUCTION

All India Institute of Speech and Hearing, Mysore came into being on 9th August 1965 under the aegis of Union Ministry of Health & Family Welfare, wholly financed by the Government of India. It is registered under the Societies Registration Act, and is working as an autonomous body.

The main objectives of the Institute are imparting professional training, clinical services and research in the field of communication disorders i.e., Speech and Hearing. The University of Mysore has accorded affiliation for teaching programme leading to the award of B.Sc., M.Sc. and Ph.D. degree in Speech and Hearing.

This is the only institution in South East Asia which offers professional training in Speech and Hearing at the post-graduate levels.

The Institute also conducts orientation programs for school teachers, short term courses in Otolaryngologists and training in preparation of custom made earmolds.

The following are the main departments concerned with the above:

1. Audiology
2. Speech Pathology
3. Speech Sciences
4. Clinical Psychology
5. Otolaryngology
6. Electronics

The Departments are actively engaged in independent research projects in addition to collaborative research projects. They also undertake hosting workshops and seminars and public education programs in Speech and Hearing. The Institute has been recognised by Government of India as advanced centre for training and clinical services in Speech and Hearing.

A full fledged Clinic has been developed to provide diagnostic evaluations, treatment, counselling and rehabilitation facilities for the Speech and Hearing handicapped and also to associated psychological and otolaryngological problems.

Ever since the inception of the All India Institute of Speech and Hearing, the Speech and Hearing-impaired from both within and outside the country have been availing the clinical services provided in the Institute premises.

Facilities are available for evaluation of patients of all ages who have problems such as voice, speech, language and hearing-impairment, mental retardation, and otolaryngological involvements. The involvement of highly qualified professional staff of AIISH in these activities ensures expert services of the population concerned. Medical specialists are visiting from the K.R.Hospital, Mysore.

Remedial and/or rehabilitative program is taken up within the Institute or outside, depending on the needs of individual patients. Wherever the patient is a potential beneficiary of the several welfare schemes instituted by the State/Central Government, appropriate certificates are issued. The Institute is one of the agencies through which the Ministry of Social Welfare, Govt. of India, distributes hearing aids under the Aids and Appliances Scheme.

Patients are referred to the Institute by local as well as outside medical professionals, teachers from Schools and DRC (Ministry of Welfare), Govt. of Karnataka. This indicates the reputation the Institute has established over the years.

Medical staff such as Physician, Paediatrician, Plastic Surgeon and Physiotherapist have strengthened our services to the cases coming to the Institute.

The demand for services has always far exceeded the facilities that can be made available within the budgetary provisions.

The main avenues utilized by the Institute for disseminating information ranged from newspapers, articles and public education pamphlets, radio talks, exhibitions and film shows and publishing a specialized Journal THE JOURNAL OF ALL INDIA INSTITUTE OF SPEECH AND HEARING.

OBJECTIVES

The objectives of the Institute as enshrined in the Memorandum of Association are as follows:

Training:

- a) To provide and assist in providing general, professional and technical education and training in Speech and Hearing for graduate, post-graduate and doctorate courses of a University.
- b) To provide and assist in providing general, professional and technical education and training to various categories of personnel e.g. medical, para-medical, non-medical, etc.
- c) To undertake, organize and facilitate study courses, conferences, lectures, seminars and the like to promote the above mentioned objectives.
- d) To undertake and provide for publication of journals, research papers, etc., and to establish and maintain libraries and information services in furtherance of the objectives of the Society.
- e) To invite representatives of governments, universities and other organizations of India and of foreign countries to deliver lectures on subjects in which the Society is interested.
- f) To co-operate with international agencies engaged in speech and hearing research and training and arrange for interchange of personnel, material and data.
- g) To institute, offer and grant prizes, awards, scholarships, research grants and stipends in furtherance of the objectives of the Society.

Research:

- a) To provide and assist in providing facilities and encouragement to research in speech and hearing, their disorders and the concerned diseases of ear, nose and throat.

Clinical Services:

- a) To provide and assist in providing clinical and surgical services for those with speech and hearing handicaps and ear, nose and throat diseases.

- b) To assist in the development of speech and hearing clinics in hospitals and other centres.

Public Education:

- a) To educate the public about persons with communicative disorders.
- b) To stimulate interest in speech and hearing through publicity and mass communication and to cooperate with other agencies and institutions or professional associations.

Administration and financial:

- a) To create administrative, technical, ministerial and other posts under the Society and to make appointments thereto in accordance with the rules and regulations of the Society.
- b) To appoint and hire services or discharge/terminate the services of personnel and to pay them in return for the services rendered to the Society, salaries wages, gratuities, provident fund and other allowances or remuneration in accordance with the rules and regulations of the Society.
- c) To borrow and raise money and funds to further the objects of the Society and to raise or collect funds by gifts, donations, subscriptions or otherwise of cash and securities and any property either movable or immovable and to grant such rights and privileges to the donors, subscribers, and other benefactors as the Society may consider fit and proper.
- d) To invest and deal with funds and money of the Society.
- e) To subscribe to, or become a member of, or to cooperate or amalgamate with any other association or Society whose objects are similar.
- f) To sell, assign, mortgage, lease, exchange and otherwise transfer or dispose of all or any property movable or immovable, of the Society for the furtherance of its objects or any of them, provided prior approval of the Central Government is obtained for any disposition of immovable property.
- g) To negotiate and enter into contracts on behalf of the Society and vary and rescind such contracts.
- h) To accept and undertake the management of any endowment or trust fund or donation to further the objectives of the Society.
- i) To establish a contributory provident fund and gratuity for the benefit of the employees of the Society.

- j) To pay all costs, charges and expenses incurred in the promotion, formation, establishment and registration of the Society.
- k) To do all such other lawful acts, deeds, things either alone or in conjunction with other organization or persons as the Society may consider necessary, incidental or conducive to the attainment of the above mentioned objectives or any of them.
- l) To undertake any other function that may be assigned to the Society by the Ministry of Health and Family Planning (Department of Health), Government of India in connection with speech and hearing.

GOVERNING AUTHORITIES OF THE INSTITUTE

EXECUTIVE COUNCIL:

Hon'ble Union Minister
for Health & Family Welfare
Nirman Bhavan
NEW DELHI 110 011.

Chairman

Hon'ble Minister for
Health & Family Welfare
Government of Karnataka
Vidhana Soudha
BANGALORE 560 001.

Vice Chairman

Vice-Chancellor
University of Mysore
Crawford Hall
MYSORE 570 005.

Member

Secretary to Govt. of India
Ministry of Health & Family Welfare
Nirman Bhavan
NEW DELHI 110 011.

Member

Additional Secretary (Health)
Ministry of Health & Family Welfare
Nirman Bhavan
NEW DELHI 110 011.

Member

Director General of Health Services
Nirman Bhavan
NEW DELHI 110 011.

Member

Joint Secretary (FA)
Government of India
Ministry of Health & Family Welfare
Nirman Bhavan
NEW DELHI 110 011.

Member

Joint Secretary to Govt. of India
Ministry of Welfare
Shastri Bhavan
NEW DELHI 110 001.

Member

Joint Secretary to Govt. of India
Ministry of health and Family Welfare
Nirman Bhavan
NEW DELHI 110 011.

Member

Secretary to Govt. of Karnataka
Dept of Health and Family Welfare
Multistoreyed Building
BANGALORE 560 001.

Member

Director of Medical Education
Govt. of Karnataka
Ananda Rao Circle
BANGALORE 560 009.

Member

Three nominees of Chairman, Executive Council

Members

One nominee of the Director, AIISH

Member

Director,
All India Institute of
of Speech and Hearing
MYSORE 570 006.

Member Secretary

FINANCE SUB-COMMITTEE

Additional Secretary (Health)
Ministry of Health & Family Welfare
Nirman Bhavan
NEW DELHI 110 011.

Chairman

Joint Secretary (FA)
Ministry of Health and Family Welfare
Nirman Bhavan,
NEW DELHI 110 011.

Vice Chairman

Director General of Health Services,
Government of India
Nirman Bhavan
NEW DELHI 110 011.

Member

Secretary to the
Government of Karnataka
Department of Health & Family Welfare
Multistoreyed Building
Dr. BR Ambedkar Road
BANGALORE 560 001.

Member

Director,
National Institute for Mental Health
and Neuro Sciences
BANGALORE 560 029.

Member

Director
All India Institute
of Speech and Hearing
MYSORE 570 006.

Member-Secretary

ACADEMIC SUB COMMITTEE:

Deputy Director General of Health
Services (Medical Education)
NEW DELHI 110 011.

Chairman

Addl. Director General of
Health Services
(Medical Education)
NEW DELHI 110 011.

Member

Principal
Govt. Medical College
MYSORE 570 021.

Member

Heads of Departments of Audiology
Speech Pathology, Speech Sciences,
ENT, Clinical Psychology, Electronics
All India Institute of Speech
and Hearing, MYSORE 570 006.

Members

Representative of University of Mysore
MYSORE 570 005.

Member

Director
All India Institute of Speech & Hearing
MYSORE 570 006.

Member-Secretary

FROM THE DESK OF THE DIRECTOR

HIGHLIGHTS 1992-93

The year 1992-93 has been a year of steady growth and development.

We have been successful in introducing many innovative and economy measures.

Two Fellowships from World Health Organization were sanctioned last year. We expect two of our staff to visit centres of excellence in the field of Speech and Hearing in the United States of America.

The three acres of land surrounding the Dharmashala was lying dry and uncultivated. In consultation with the District Forest Officer revenue yielding trees have been planted.

For the first time, payment of Rs.5/- as the 'one time' registration fee for all patients seeking our professional assistance and Rs.25/- for clinical certificates has been introduced. However, the economically weaker sections of the patient population was given assistances through the Patients' Welfare Fund. Continuous in-flow of fund was ensured by keeping a long-term deposit of Rs.10,000/-.

Action has been initiated to recover certain dues from the University of Mysore and the Karnataka Water Supply and Sewage Board.

TRAINING:

Maintaining the trend set in the previous years the results of both B.Sc., and M.Sc., degrees have been announced without delay. Marks sheets were also sent to their respective addresses, a step much appreciated by the students.

Our students did us proud by winning several prizes in the inter-collegiate sports and cultural activities. The NSS Unit was very active and has brought out a magazine entitled: "Arunodaya" which is a well thought out activity. Registrar (Evaluation) of the University of Mysore released the publication.

RESEARCH PROJECTS:

Of the several projects, a project on 'Better Molds For More People' was concluded during July 1992. Material development soft earmolds continued with the Central Institute of Plastic Engineering and Technology which is situated locally, and whereas other projects continued and some were extended. A fresh start was made in other areas such as with the Indian Telephone Industries, Bangalore to fabricate Frequency Modulated Hearing Aid. Collaboration with the National Council for Educational Research and Training continued.

ANNIVERSARY OF THE INSTITUTE:

XXVII Anniversary celebrations on 9th August was virtually a confluence of our cultural streams. It was national integration at its best. The participants showed keen interest in the colorful programs put up by the members of the staff and students. The children with hearing-impairment and mental retardation, with their parents depicted a popular poem which enchanted every one present. These programs also served as an effective media for public education.

The staff and students kept the Institute flag flying high by winning several prizes/awards whether it was the Horticultural show or the cultural activities.

There is a constant effort to increase greenery in the campus.

PROMOTION OF HINDI LANGUAGE:

To promote Hindi language in the Institute, "Hindi Promoters Committee" consisting of members from different departments/sections has been constituted to provide a broad spectrum for effective programing of the activities. In its monthly meetings, the Committee ensured that suggestions for better implementation of the official language and follow-up.

The Official Language Committee from the Union Ministry of Health and Family Welfare visited the Institute in the month of October 1992 to assess the work. The Committee was satisfied with the work being done and has given a good report.

The Committee organized "One Day Workshop" on Hindi Day in which the staff participated enthusiastically. Lectures were delivered by the faculty members of the University of Mysore, Central Institute of Indian Languages, Defence Food Reserch Laboratory, and Regional College of Education, Mysore.

To ensure implementation of suggestions and follow-up work on the decisions taken in the Official Language Committee Meetings, committee meetings were held regularly. There was active participation of the Institute in the OLIC meetings. Scientific documents, reports and statements and public education pamphlets were translated in Hindi.

INSERVICE TRAINING TO STAFF:

In-service training programs included handling of the computer applications in administration. Human resource is the greatest asset, keeping this in mind, arrangements were made to give short-term programs such as disciplinary proceedings, computer training and Hindi translation.

The Hindi Translator underwent a five days training course in Hindi Translation at SRLC, Mysore conducted by the Ministry of Home Affairs, Government of India.

PUBLICITY AND INFORMATION AND PUBLIC GRIEVANCES:

Round the year visitors from educational and training institutions visited the Institute besides members of the public. New dimension was added last year to our public education system. Hitherto we used to distribute public education materials, but now a quiz devised by us is being administered. This pattern has proved to be popular.

The press and the media were very helpful in our programs. The press release issued in connection with the Institute Anniversary was given wide coverage.

The Publicity and Information Officer attended to the public grievances also.

COMPUTERS:

As part of the VIII Plan program computers were provided to the various Departments and Sections thereby meeting the long pending needs to adequately meet demands of our training, research, clinical and administrative activities.

We have gratefully acknowledged the monetary contributions made to Institute by State Bank of Mysore, Manasagangothri Branch, Mysore; Bank of Baroda, Mysore Branch, M/s. Gangaram and Sons.

DISCIPLINARY MATTERS:

Disciplinary proceedings were initiated in suitable cases and recommended action has been taken.

TRAINING

I. ADMISSIONS

The admissions for I B.Sc. & I M.Sc. were made according to the rules and regulations of the University are as follows;

I B.Sc.

	<u>Male</u>	<u>Female</u>	<u>Total</u>
Zones - South	2	2	4
North	1	4	5
East	5	0	5
West	3	1	4
SC/ST	2	2	4
Foreign	-	3	3
General merit	1	7	8
TOTAL	14	19	33

I M.Sc.

General merit	4	17	21
Inservice	-	-	-
SC/ST	-	2	2
Repeat	1	-	1
TOTAL	5	19	24

II.a) STUDENT TRAINING

All the classes were completed as per schedule and 88 students persuaded B.Sc. course and 47 students persuaded M.Sc. course and the distribution of students is as follows:

	<u>Male</u>	<u>Female</u>	<u>Total</u>
I B.Sc.	14	19	33
II B.Sc.	7	22	29
III B.Sc.	8	21	29
I M.Sc.	5	19	24
II M.Sc.	10	13	23

The classes started on 1.7.92 and 15.7.92 for B.Sc. and M.Sc., respectively and the students were trained in various aspects of Speech Pathology, Audiology, Clinical Psychology, ENT and Electronics. M.Sc. students completed their Independent projects and dissertations.

To-date 437 students have completed the course for B.Sc. degree and 272 for M.Sc. degree.

The following six departments are involved in training of both B.Sc. and M.Sc. students

Department of Audiology:

In this department the student-trainees are given training in both the practical and theoretical aspects of Hearing, and it's disorders. Periodical tests, assignments and examinations are conducted. Twenty two Independent projects were completed. Twenty four Independent projects and two dissertations are being carried-out under the guidance and supervision of staff of the Department.

Apart from the custom made earmold making training; training in taking ear impression and making plaster forms; advance course in making earmolds, were also conducted.

World Health Organization has sanctioned equipment to the tune of \$214,000.00.

Department of Speech Pathology:

In this department the student-trainees are given training in both the practical and theoretical aspects of Speech and it's disorders. Periodical tests, assignments and examinations are conducted. Eight M.Sc., dissertations were completed and submitted under the guidance of the Departmental staff in May 1991 for the academic year 1990-91. 14 Master's dissertations are in progress for the academic year 1991-92.

Department of Speech Sciences:

In the department of speech sciences the student-trainees are given training in both the practical and theoretical aspects of Normal Speech. Periodical tests, assignments and examinations are conducted. Students are trained to use various instruments for voice, articulation and fluency evaluation:

Thirty two I B.Sc students were trained to use PM 100, Expirograph & Beat Frequency Oscillator. 27 II B.Sc students were trained to use PM 100, Expirograph & Beat Frequency Oscillator to evaluate voice, articulation and fluency. 21 I M.Sc students were trained to use computer for evaluation of voice disorders, speech analysis and synthesis.

Department of Clinical Psychology:

Teaching B.Sc and M.Sc students of the institute in various subjects of Clinical Psychology has remained as one of the major responsibilities of the Department. The students posted to the department are assigned to case history taking, testing and observation of cases under the supervision of departmental staff. The students also received training in therapeutic procedures and counselling of cases.

Department of ENT:

The undergraduate and postgraduate students of the institute are being trained through lectures, (3 hours per week for B.Sc and 3 hours per week for M.Sc) in the field of diseases of ear, nose and throat. The students are also provided with practical demonstrations of pathology of the speech and hearing disorders and ENT diseases when they are posted in the Department.

Department of Electronics:

In the department of Electronics the student-trainees (I B.Sc and II M.Sc students) are given training in Basic Electronics and Acoustics including practicals and servicing of Hearing Aids and other equipments during their clinical postings.

II. b) IN-SERVICE TRAINING

Seven of the staff are working for their doctoral degree.

III. RESULTS

The date of declaration of results and the distribution of successful candidates are as follows:

		Male	Female	Total
I B.Sc.	19.06.1992	3	18	21
II B.Sc.	19.06.1992	7	18	25
III B.Sc.	09.06.1992	4	23	27
I M.Sc.	27.10.1992	9	12	21
II M.Sc.	02.09.1992	4	18	22

IV. DOCTORAL PROGRAMME

	Male	Female	Total
Candidates Registered	1	1	2
Working	4	5	9
Thesis submitted	2	0	2
Degree awarded	1	0	1
Total No. of Candidates awarded Ph.D till date	6	5	11

VI. GUEST LECTURES

The following guest lectures were arranged:

1. Dr.K.H.Visweshwara Bhat, Asst. Prof. Patterson College, New Jersey on "Central Changes in the Auditory System using Psychophysical Procedures" and "Electrical Stimulation Studies in Animals".
2. Dr. T.K.Parthasarathy, Asst. Professor, SIVE, Illinois on "ABR".
3. Dr. A.R. Vijayalakshmi, Audiologist, Department of ENT, AIIMS New Delhi on "SAFA".
4. Dr. Chidananda Gowda, Prof. Department of Computer Sciences, SJCE, Mysore on "Pattern Recognition"
5. Dr. K.Coolisp, Prof., University of Colarado, Colarado, on "Application of Neuropsychology in Speech and Hearing" and "Multivariate Analysis and its Application in Research".
6. Mr. Sudhakar, Lecturer, University of Mysore, Mysore on "Data Management System using Computer".

VII. STUDENT ACTIVITIES

The Students Association was inaugurated on the 5th of September 1992. The students held various sports and cultural activities through-out the year and also in collaboration with the NSS Unit of AIISH. They brought out a directory of students. The valedictory function of the Students' Association was held on 13.4.1993.

CLINICAL SERVICES

Providing clinical services to individuals of all ages with speech and hearing problems is another major objective of the institute. Clinical services includes identification, diagnosis, counselling and therapeutic services to all kinds of speech and hearing problems. Specialists in the area of Neurology, Pediatrics, and Plastic surgery visit our institute also visit our institute to complete multidisciplinary approach to the problem.

ANNUAL STATISTICS

Cases seen during the year 1992-93

1. New cases	..	8123
2. Repeat cases	..	12566
3. Total no. of cases	..	20689
4. No. of working days	..	246

Age-wise distribution on new cases registered

Age group	Male	Female	Total
0-5	1011	633	1644
5-10	580	476	1056
10-20	920	574	1494
20 & above	2588	1341	3929
Total:	----- 5099 -----	----- 3024 -----	----- 8123 -----

State wise Statistics of the new cases seen at the
Institute (excluding K.R.Hospital)

<u>Sl.No.</u>	<u>Name of the State</u>	<u>No. of cases seen</u>
1.	Andhra Pradesh	175
2.	Assam	7
3.	Bihar	13
4.	Goa	10
5.	Gujarat	3
6.	Haryana	1
7.	Karnataka	7339
8.	Kashmir	1
9.	Kerala	367
10.	Madhya Pradesh	7
11.	Maharashtra	14
12.	Orissa	4
13.	Rajasthan	3
14.	Tamil Nadu	151
15.	Union Territory	9
16.	Uttar Pradesh	7
17.	West Bengal	10
18.	Overseas (Nepal-1; Bangladesh ^h)	2

8123

Statistics of new cases seen (as per diagnosis)

1. Hearing loss	1690
2. Hearing loss with other problems	730
3. Stuttering	450
4. Misarticulation	60
5. Delayed speech	550
6. Voice	210
7. Mental retardation	105
8. Aphasia	9
9. Cerebral Palsied	5
10. E.N.T.	3934
11. Normal	105
12. Incomplete (did not stay for complete examination/advise)	85
	----- 8123

Table showing the total number of cases seen in terms of broader categories

1. Speech and Hearing problems	3999
2. ENT problems	3934
3 Normal	105
4. Incomplete cases	85

Cases registered from Mysore City, Mysore District and other places.

<u>Year</u>	<u>New Cases</u>	<u>Mysore City</u>	<u>Mysore Dist.</u>	<u>Others</u>
1990-91	8568	3569	1560	3439
1991-92	8477	3579	1656	3242
1992-93	8123	3434	1674	3015

Department of Audiology:

Hearing Evaluation:

The main activity of this section is the differential diagnosis of auditory disorders.

Complete audiological evaluation which includes puretone audiometry, speech audiometry and immittance audiometry is carried out for all the cases. Special tests and brainstem evoked response audiometry was carried out whenever required. Behavioral observation audiometry was carried out for young children who are not cooperative for routine audiometry. Immittance audiometry and brain-stem evoked response audiometry were carried out to cross check the results of behavioral observation audiometry.

A total number of 4972 cases of different age groups were evaluated. The youngest evaluated was a 15 day old baby. Appropriate referrals and counselling were provided for all the cases.

The number of cases who feign a hearing loss have increased. This could be due to the benefits provided by the Government for the physically handicapped. Appropriate special tests were carried out to identify such cases and also to estimate their correct threshold.

Extension service of the section included infant screening at K.R.Hospital, Mysore, a past activity of the Department that was revived. Those infants who were at risk were advised to come for detailed evaluation at the Institute.

Physically handicapped certificates were issued to the eligible patients for various benefits such as financial assistance, language exemption in education, income tax exemption, housing scheme, employment under the quota for the physically handicapped.

Training: Clinical Supervision

a) Hearing evaluation:	I B.Sc ..	1559	hours
	II B.Sc ..	1374	"
	III B.Sc ..	800	"
	I M.Sc ..	508	"
	II M.Sc ..	1295	"
b) Hearing aid evaluation	II B.Sc ..	228	"
	III B.Sc ..	760	"
	I M.Sc ..	573	"
	II M.Sc ..	537	"
c) Earmold lab	III B.Sc ..	500	"
		-----	8134 hours

Clinical Activities

No. of cases evaluated		4972
No. of evaluations done		10330
No. of ears with normal hearing	1718	
- conductive hearing loss	1909	
- sensori-neural hearing loss	2292	
No. of post patch audiogram	85	
No. of post operative audiogram	23	
No. of post medicine evaluation	55	
No. of Pure tone Audiometry	2954	
No. of Speech audiometry	2753	
No. of Behavioral Observation Audiometry	1016	
No. of Immittance	3529	
No. of Brain Stem Evoked Response Audiometry	178	
No. of audiogram copies issued		636
No. of certificates issued		273
- Financial aid	244	
- Tax exemption	10	
- Physically Handicapped	1	
- Language exemption	18	

Hearing Aid Trial:

The clinical activities of this unit included evaluation and prescription of hearing aids, demonstration and counselling regarding use of hearing aid issue of certificates. hearing aid trial was done for 3170 cases and hearing aids were prescribed to 1524 individuals. These included body level, behind the ear and in-the-ear hearing aids.

Assistive listening devices were recommended when indicated. Ear protective devices were also recommended for those working in noisy environments.

Counselling:

Patients were counselled regarding (1) the need and usefulness of amplification, (2) the care and maintenance of hearing aid, (3) speech reading, (4) auditory training (5) public education pamphlets were also distributed.

Certificates were also issued to hearing aid users seeking employment, drivers license and for admission of the hearing-impaired to universities abroad.

Industrial workers who had noise induced hearing loss were counselled to wear ear protective devices at the work place. Cases who were referred by professionals from outside

the Institute were given a report of the audiological evaluation at the Institute. A high risk check list developed by the department was also put to use.

Hearing Aid Evaluation

No. of cases seen		3257
No. of cases seen for hearing aid evaluation	2484	
No. of cases prescribed hearing aids	1524	
No. of cases for whom spares were issued	122	
No. of hearing aids exchanged (prescription)	28	
No. of cases counselled	645	
No. of cases for whom driving licence certificate issued	7	
No. of cases for whom medical reimbursement form signed	26	
No. of hearing aid exchanged	3	
F.M. hearing aid evaluation	6	
No. of cases tested in Hindi	8	

Earmould making:

The clinical work in the earmold lab includes making custom earmold for the users of both the body level hearing aids and BTEs. There are cases who have also been fitted with acoustic modifications like vents. Besides ear plugs are made for swimmers and industrial workers.

Earmold Lab

No. of cases seen		1454
No. of impression taken	2153	
No. of molds completed	2505	
No. of cases to whom molds were issued	995*	

Total no. of cases seen in the Department -- 10382

*This number is comparatively less as the hearing aids for issue free of cost are not available at present.

External Consultancy:

Noise measurement of DC Brushless fans was carried out for TVS Electronics, Tumkur.

Extension Service:

A total of 39 villages in and around Mysore District were covered along with Family Planning Association of India for Early Identification of Hearing problems in Infants. Counselling services were rendered to parents of hearing-impaired children and children with ear discharge. Health workers were given orientation regarding the use of high risk registers.

ACTION PLAN

PHYSICAL TARGETS AND ACHIEVEMENTS - 1992-93

Unit	Targets	Actual achievements
------	---------	---------------------

PHYSIOLOGICAL AND ELECTROPHYSIOLOGICAL TEST UNIT

- | | |
|---|--|
| 1. Training in Electro-physiological evaluation will be provided for 100 students. | 1. 75 students were trained to administer ERA and 105 students were trained to administer immittance audiometry. |
| 2. Electrophysiological tests will be conducted for approximately 2000 patients of varying ages and both sexes. | 2. Electrophysiological tests were carried on 500 patients & physiological tests on 2500 patients. |
| 3. Course on orientation to electrophysiological evaluation will be | |
| 4. Refresher course on Electrophysiological evaluation. | |

SENSORY AIDS - ASSESSMENT UNIT:

- | | |
|---|---|
| 1. To provide ground for practical training. | 1. 75 students were trained.

- Short-term course was conducted for 5 teachers. |
| 2. To use insertion gain measurements in hearing aids selection for 200 cases. | 2. Insertion gain measurements were carried out on 100 patients. |
| 3. To make insertion gain measurements after incorporating acoustic modifier in 25 cases. | 3. For a few cases acoustic measurements were made & insertion gain measurements were done. |
| 4. To provide training to 50 students in real ear measurements. | 4. 31 students were trained in real ear measurements. |

MAINTENANCE, CALIBRATION, AND FABRICATION UNIT:

- | | |
|---|--|
| <ol style="list-style-type: none"> 1. To train 50 students in calibration and maintenance of audiological equipment. 2. To measure electro-acoustic characteristics for 200 hearing aids. | <ol style="list-style-type: none"> 1. 90 undergraduates and 46 graduates were trained in calibration. 2. Electroacoustic characteristics of 50 hearing aids were measured. |
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PROSTHETIC AIDS - R&D UNIT:**Training:**

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| <ol style="list-style-type: none"> 1. To provide training to 30 undergraduate students in preparation of custom earmolds. 2. To conduct course in plaster form making to 5 candidates. 3. To conduct advanced course in earmold for 3 candidates. | <ol style="list-style-type: none"> 1. Trained 10 undergraduate students in custom earmold making. 2. Provided short-term training course to 3 candidates. 3. Provided an advanced training to one speech and hearing candidate. 4. Prepared & designed custom earmolds to 1100 cases. 5. Prepared swimmers molds to 20 subjects. 6. Indigenously designed flasks 6 nos. were put to use on a regular basis. 7. Damper was provided to one case. 8. Improved methods in some steps of processing are adapted for economy in time and effort and also efficiency. |
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EARLY IDENTIFICATION OF HEARING LOSS:

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| <ol style="list-style-type: none"> 1. To train 15 health care workers in early identification of hearing loss. 2. Collaboration with voluntary agencies such as FPAI in providing extension services in Mysore Dist. 3. To use check-list to identify hearing loss in population with risks as such as industrial workers and children. | <ol style="list-style-type: none"> 2. The program with FPAI has been extended to include 12 rural areas. 3. Check-list have been used for early identification of hearing loss. |
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HEARING HEALTH UNIT:

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| <ol style="list-style-type: none"> 1. Preparation of 3 audio cassettes. 2. To prepare check-list on hearing loss 3. To prepare 5 posters - hearing health. | <ol style="list-style-type: none"> 1. Preparation of audio cassettes is under preparation. 2. Check-list have been prepared for identifying hearing loss in industrial workers and high risk babies. 3. An audiovisual program has conducted for 30 industrial workers. 4. Lecture on hearing conservation was given for 100 people. 5. A talk was given in AIR on Hellen Keller Day. 6. A lecture was given on Noise Pollution at Science Centre, Mysore. 7. 70 check-list have been received from industrial workers. |
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Department of Speech Pathology:

Diagnostics and Counselling Section:

Ninety four undergraduate and fortysix postgraduate students were trained in the assessment and diagnosis of a variety of speech-language disorders in children and adults in accordance with the curriculum. On an average 14 students are given training in diagnosis and counselling for 3 hours a day.

Distribution of types of cases seen during 1992-93 (Apr-Mar)

No. of Cases

I. Language Disorders:

	Case History	Speech Evaluation	Counselling
1. Delayed Speech and Language (DSL)	261	261	188
2. DSL with Mental Retardation	430	430	203
3. DSL with Cerebral Palsy	63	63	31
4. DSL with Autism	14	14	5
5. Aphasia	32	32	6
6. Speech Regression	19	19	8
7. Learning Disability	15	15	6

II. DSL with Hg. Loss

971	971	369
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III. Rhythm Disorders:

1. Stuttering	322	322	136
2. Normal Nonfluency	48	48	40

IV. Articulatory Disorders:

1. Misarticulation	146	146	43
2. Cleft Palate	65	65	11
3. Dysarthria	31	31	2

V. Voice Disorders:

1. Dysphonias	272	272	41
2. Laryngectomee	4	4	

A B S T R A C T

- Cases with Speech & Language Disorders	2,6
- Hg. loss cases without any associated speech and language disorders	1,85
- No. of Cases counselled	1,08
- No. of Cases re-evaluated	49
- No. of Cases re-counselled	21

Prosthodontic Aids

The Prosthodontic Technician has prepared cleft palate prostheses and speech bulbs for the cases referred by the Plastic Surgeon and Speech Pathologists. Both temporary and long term prostheses are prepared with monthly follow ups. Statistics are enclosed. Steady models for teaching purpose have also been prepared.

ANNUAL STATISTICS OF PROSTHODONTIC LAB

Type of Prosthesis Done	No.of sessions	No.of Prosthesis done
Cleft Palate Prosthesis (self cure material)	21	2
(Hot cure material)	7	
Speech Bulb Prosthesis	91	8
Cleft Palate Prosthesis	97	12
Total	218	24

Therapy Clinic:

Regular clinical training is being provided to 84 undergraduate and 44 postgraduate students in Speech and Hearing in handling a variety of speech-language and hearing disordered individuals. This is done through observation, diary writing and practical clinical training in pre-therapy assessment, planning and carrying out therapy, counselling and guidance for home training and report writing.

Fifty per cent of the students of each class are posted in the clinic for 3 hours/day on rotation basis.

Clients of all age groups with a variety of speech-language and hearing disorders were provided with speech-language therapy throughout the year.

On an average, 172 cases with various speech disorders were seen every month and a total of 1698 individual therapy sessions of 45-60 minutes duration were provided to these cases. A group of 8-10 hard-of-hearing children were provided intensive group therapy for one & a half hours per day to improve their auditory and communicative skills.

Apart from routine guidance and parent counselling, group parent counselling meetings were held for the parents of the cerebral palsied, hard-of-hearing, autistic and mentally retarded children. They were educated regarding the handicap, etiology, prevention and its management. About 20 such parent group meetings were held in the year. The duration of each parent group meeting was one & a half hours.

On an average, 20-25 out-station cases were seen every month for demonstration speech therapy. They were provided intensive guidance/demonstration sessions and handouts for home training on auditory training, articulation correction and speech and language training.

Itinerant Speech Therapist services are offered in clinical activities. Follow up of cases enrolled for therapy are being followed up through correspondence and visits. Follow up letters were sent to 294 cases, to ascertain the present condition of their problems and need for further evaluations and/or guidance. As a response cases have replied and some have reported.

Therapy cases with hearing loss, mental retardation, stuttering, delayed speech and language and learning disability who are attending normal schools are being followed up through school visits. Performances of these cases are recorded for further guidance in management at schools, in the clinic and at home. Guidance to concerned teachers and orientation for identification and management and referrals are also offered periodically. Twelve schools were visited and 30 cases were followed up.

Home visit was done for an aphasic patient for counselling to continue therapy. Visits to the working places of patients requiring follow up and guidance to co-workers were offered periodically.

Parent guidance programme is being held for the parents of the hearing-impaired children. Guidance on home training with demonstration sessions (Malayalam) are offered. Written materials required for home training were provided.

OTHER CLINICAL ACTIVITIES:

The children receiving speech therapy participated in the cultural programs on the Institute's Anniversary day celebrations on 9.8.1992.

Children's Day on 13.11.1992 was celebrated in the Clinic for the therapy cases. In this connection, Fancy Dress Competition was held and prizes were distributed.

The World Disabled Day was celebrated at AIISH on 17.3.1993. The celebrations were co-hosted by Mysore Round Table-21. On this occasion, sports meet for the disabled children was held and prizes were distributed for these events. MRT-21 donated a tricycle for the adult physically disabled person Mr. Goutham R Shetty, Chairman, MRT-21 was the Chief Guest.

Statistics of the Therapy Clinic

Disorder	No. of cases seen
Hearing loss & delayed speech	897
Mental retardation	293
Cerebral palsy & delayed speech	96
Delayed speech	57
Fluency disorders	262
Misarticulations	83
Voice disorders	114
Cleft palate	66
Aphasia	49
Dysarthria	07
Apraxia	12
Learning Disability	80
Autism	08
Multiple disorders	64
Laryngectomy	54
Total :	2158

PLANNED ACTIVITIES - 1992-93

- 1) Establishment of an Intensive Speech-Language Therapy Unit for the communication disordered at Pre-school level
- 2) An out-reach program wherein implementation of home training programs and supervision and monitoring of progress will be carried out.
 - Development of home training for different speech handicaps
 - Training of students to carry out the out-reach program in their own areas.
- 3) Establishment of Prosthetic Laboratory to provide various types of prosthesis for cases with cleft lip and palate.

Department of Speech Sciences:

1. Diagnosis: 833 patients with voice, articulation and fluency disorders were evaluated.
2. Therapy: 140 patients with voice, articulation and fluency disorders were supervised.
3. Others: Speech & Voice Extension Services: Counselling and guidance is being provided to cases with voice disorders and to the professional users of voice and speech regarding effective and efficient use of voice and care of voice.

ANNUAL STATISTICS:

Diagnostics	Therapy
833	140

PLAN ACTIVITIES

Activity	Physical Target	Achievements
1. Evaluation of Speech systems	600 diagnostic cases will be evaluated for speech using computerized techniques 150 therapy cases will be provided with modern therapy techniques in voice, fluency & articulation.	457 cases were evaluated and 88 cases were provided with therapy.

2. Acoustic analysis of Kannada Speech sounds	Acoustic analysis of Kannada phonemes in 20 adult normal Kannada speakers and 10 hearing impaired children	Acoustic analysis of phonemes in eight adult normal Kannada speakers and ten hearing impaired children have been completed.
3. Laryngeal activity in stutterers	To extract laryngeal behaviour in ten stutterers using computerized laryngograms.	Not achieved as proper instrumentation was not available.
4. Procurements of instruments	To procure indigenous instruments which incorporated advanced technology in the assessment of laryngeal behaviour.	Not procured because of lack of funds.
5. Infant cry analysis	Determining the acoustic characteristics specific to each disorder	20 infant cries has been analysed to obtain total duration of the cry & the pauses within the cries.

Department of Clinical Psychology:

A total number of 2442 new and 432 old cases were tested and evaluated by the departmental staff for routine and special diagnostics which includes neuro-psychological assessment and assessment of vocational interests, aptitudes and skills. A total of 244 mental retardation cases have been issued with certificates for financial assistance from the Govt. of Karnataka.

Individual and group therapy were given by the departmental staff to a variety of cases such as stuttering, mental retardation, behavioral problems, functional voice disorders and autism.

No. of cases who received therapy	106
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Total No. of therapy sessions	1921
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Extension of B.T. Unit - I Phase of the work is under progress. Rs.1.50 lakhs has been sanctioned for the purpose.

ANNUAL STATISTICS

No. of Cases tested/evaluated	2874
No. of New cases	2442
No. of Mentally Retarded cases	865
No. of Re-evaluation	432
No. of Certificate issued for the Mentally Handicapped	244
No. of Cases received therapy	106
No. of Session spent for therapy	1921

Department of ENT:a) Diagnostic:

OPD	AIISH all week days	K R Hospital only on Wednesday
Inpatients	-	20 bed unit
O.T.	-	twice a week
Emergency	-	only at KRH

At present only minimal therapeutic procedures like suction clearance of discharging ears can be done at the Institute. Other therapeutic procedures, both medical and surgical are being done at KR Hospital as there is no inpatient facility at the Institute.

A comparative study of Homeopathic & Ayurvedic Versus Allopathic treatment in CSOM, SOM and post-operative cases is being carried out.

Clinical chemical cauterization for small central perforation (silver nitrate) is being tried.

PLANNED ACTIVITIES:

1. Cryo Surgery Unit
2. Rhinology & Cleft Palate Unit
3. Laser Unit
4. Vertigo Unit
5. Electro Cochlear Unit

ANNUAL STATISTICS:

	Old	New	Total
Cases seen at AIISH	8054	6949	15003
Cases seen at KR Hospital	4152	4763	8915
	Major	Minor	Total
Operation performed	128	155	283
Microscopic procedures done at AIISH			3409

Department of Electronics:

1. The regular free service of hearing aids for the cases was carried out.
2. The regular service, maintenance and calibration of equipment of different departments was carried out with regular check up.
3. The hearing aids received under Social Welfare Department for free distribution were tested and certified.
4. The students of II M.Sc and I B.Sc are trained in basic repairs, calibration of equipments and service of hearing aids during their clinical posting.
5. The audio-visual equipments were provided and installed for all the teaching activities including guest lectures, clinical meetings and Journal Club.
6. Servicing facility was extended to Government Deaf School, Mysore in servicing 3 Amplifiers, 19 Attenuators, 11 Head sets and 13 Microphones.

Other Activities:

1. Advice was provided for purchase of new technical equipments of the different Departments of the Institute.
2. The Central air-conditioning, the two generators and pump houses were maintained along with other electrical installations.

PLANNED ACTIVITIES:

1. Designed a Sound Proof Mobile Unit for speech and hearing camp under the Rural Health Program Scheme. This unit was funded by the Government of Karnataka.
2. High tension line installation for better distribution of electrical power system in the campus is under progress.
3. Proposal for complete automation of the Institute has been submitted. Ten personal computers has been installed during the I Phase.

ANNUAL STATISTICS

1. No. of hearing aids repaired	.. 1032
2. No. of hearing aids certified	.. 285
3. Equipment repaired:	.. 122
Major - 67	
Minor - 55	
4. Electrical repairs	.. 205
Major - 92	
Minor - 113	
5. No. of hours of clinical supervision	.. 848 hours
I B.Sc. - 296 hours	
II M.Sc - 552 hours	
6. External Consultancy	.. 6
7. Audio-visual system, video-recording public address system (all Departments) video recording 20-45 minutes)	.. 20
8. Equipment tested and certified	.. 26

RESEARCH ACTIVITIES

RESEARCH PROJECTS IN PROGRESS

Department of Audiology:

- 1) The project entitled "Better molds for more people" was terminated on 5th July 1992. The final report of the project was submitted to the Ministry of Welfare, the sanctioning authority.

Under the project the following items were developed:

Earmold flask and clamp, Coupling rings - both metal and plastic, Tubings - prebent and straight, Horns and positive venting valve (horns need further modification in terms of thickness of wall), Soft earmold material - the indigenously available silicon based soft material was tried and found suitable for the purpose.

Department of Speech Pathology:

- 1) The Project on "A Developmental Investigation of Onset Progress and Stages of Literacy Acquisition - Its Implications for Instructional Process" submitted to the NCERT by Dr. Prathibha Karanth and Dr. P Prakash is in progress. Data collection has been completed and compilation of data is being done.
- 2) Project on "Production of Language Training Materials in major Indian Languages" proposed by Dr. Prathibha Karanth, Ms. R Manjula, Ms. Y V Geetha and Ms. K S Prema sanctioned by UNICEF is in progress. The materials have been prepared and field testing in various places is being carried out and expected to be completed in May 1993.
- 3) Project on "Development of Video tapes of speech and hearing disordered cases for public education and training" taken up by Dr Prathibha Karanth, Ms R Manjula, Ms Y V Geetha, Ms Indira Kumari and Ms K S Prema has been completed.
- 4) A project on "Developmental milestones in Language Acquisition in Indian Languages: Kannada and Hindi" proposed by Dr Shyamala Chengappa and Mrs Basanti Devi Lecturers in the Department of Speech Pathology has been sanctioned by the ICSSR and is in progress.

Department of Speech Sciences:

1. Project entitled "Speech Oriented Learning systems for the Handicapped (SOLSH)" funded by the Department of Electronics, Government of India, is being carried out in the department. Therapy: In this project the learning system for the handicapped developed was used for therapy for seven hearing impaired and the following number of one hour therapy sessions were provided for each patient:

Case	Sex	Age in yrs.	Diagnosis	No. of sessions
1	Female	6	Binaural S.N. Loss	145
2	Male	5	-do-	87
3	Female	6	-do-	44
4	Female	6	-do-	47
5	Male	6	-do-	11
6	Male	7	-do-	8
7	Female	12	-do-	5

Distinctive Feature Analysis:

415 Hindi minimal pairs were prepared and perceptual evaluation of these pairs was done on 30 native Hindi & 30 non-native Hindi speakers.

Spectrographic analysis, wide band bar of minimal pairs in Hindi was performed to determine the distinctive features in Hindi. Further statistical analysis has been carried out to establish the information transmission in bits/stimulus for each feature.

Acoustic Analysis:

Initial stop consonant and preceding vowels in 600 Hindi words were analyzed for the following 28 parameters -First four formant frequencies and their corresponding energy levels and bandwidth, transition duration and speed of transition of first four formants, fundamental frequency, burst frequency, burst duration, range of burst frequency, VOT, vowel duration, word duration, closure duration.

Acoustic analysis of phonation samples of /a, i, u/, (three trials each) was done for 20 hearing impaired children using the program INTON. Speed of fluctuation of fundamental frequency and intonation, extent of fluctuations of Fundamental frequency, range of Fundamental frequency, and Fundamental frequency were extracted.

2. Acoustic Analysis of Speech Sounds:

The analysis of data of 20 normal Kannada speaking subjects has been completed. Totally 2000 words have been analyzed to obtain information regarding Formant frequencies of vowels in Kannada. The work is in progress.

3. Acoustic analysis of Voice:

Software for automatic extraction of EGG has been developed and a study on Automatic extraction of EGG parameters is under progress. Quantification of hoarseness and acoustic analysis of laryngectomee speech are under progress.

4. Development of Software for diagnosis and analysis of speech:

Based on pattern recognition, programs are being developed. Data of 427 voice patients has been recorded in the computerized proformae.

5. Glottal behavior in normals and speech handicapped:

Glottal output of 332 voice patients were recorded and analyzed for the diagnosis of laryngeal pathology.

6. Speech Perception:

Work in the area of development of Speech perception in children, development of coarticulatory perception and trading relationship between temporal and spectral parameters and synthetic tests of rhythm are under progress.

7. Data on Infant Cry Analysis:

The cry analysis of 20 infants with different pathological conditions has been completed. The cry has been analyzed to obtain information regarding total duration of cry and the duration of pauses within the cries. The work is under progress.

Department of Clinical Psychology:

1. Vocational assessment of the communicatively handicapped.
2. The effectiveness of behavior therapy for the tinnitus patients.
3. Relationship between EPI scores and BGT among stutterers.
4. Type 'A' behavior pattern among stutterers.
5. Consanguinity and communicative disorders.

Department of Electronics:

1. The Department of Electronics in collaboration with the Department of Audiology is testing and evaluating the FM hearing aids developed by Indian Telephone Industries, Bangalore.
2. The design of voice-light with phonation duration has been completed. The fabrication could not be taken up due to paucity of funds.
3. One piece of VTBI (Visual Telephone Bell Indicator) has been designed and sent to the sponsorer along with the report.

PROJECTS PROPOSED AND SUBMITTED:

Department of Audiology

- 1) The project entitled "Frequency modulated (FM) auditory system: Development and Evaluation" has been submitted to the Ministry of Health and Family Welfare to be forwarded to the Ministry of Welfare, DRC Scheme for funding in collaboration with Indian Telephone Industries, Bangalore.

The prototype frequency modulated (FM) auditory system developed by ITI, Bangalore has been modified and is continuing to be evaluated at AIISH. Both the electro-acoustic measurements of the system and the performance of hearing-impaired with the same are being evaluated.

Department of Speech Pathology

- 1) A Project proposal titled "Upgradation of clinical training, services and documentation of speech-language and hearing disorders at AIISH" has been submitted to WHO for funding.

The purchase of the following equipment has been sanctioned and is expected to be received in 1993-94 for up-gradation of clinical training, services and documentation in the Department.

- 1) IBM Personal System/2
- 2) Macintosh &
- 3) Accessories

Department of Speech Sciences:

The projects on the following areas have been submitted to various funding agencies:

- 1) Speech analysis in Indian languages - Submitted to Department of Electronics, Government of India.
- 2) Speech perception in children: Temporal aspects - Submitted to Department of Science & Technology.
- 3) Differential diagnosis of stuttering - Submitted to WHO.
- 4) Differential diagnosis of Dysarthria - Submitted to WHO.
- 5) Infant Cry analysis - Submitted to WHO.

Department of Clinical Psychology

- 1) Developing psychodiagnostic tests for the assessment of cognitive functions of the hearing handicapped - Submitted to WHO.
- 2) Community Health Programme for the communicatively handicapped.

Ph.D PROGRAM:

Department of Audiology

- 1) Mrs. Asha Yathiraj - "Contributory factors in the integration of the hearing-impaired in schools".
- 2) Mrs. K Rajalakshmi - "A descriptive study of the sign language of the deaf".

Department of Speech Pathology

- 3) Ms R Manjula - "Aspects of Intonation in Kannada". (In Progress)
- 4) Ms.Y V Geetha - "A comparative study of stuttering" behavior". (In Progress)
- 5) Ms. K S Prema - "Reading Acquisition profile in Kannada". (In Progress)

Department of Speech Sciences

- 4) Mr. C S Venkatesh - "Acoustic Analysis of Kannada Speech Sounds" (In Progress)

Department of Clinical Psychology

- 5) Mr. P Kalaiah - "An investigation into personality correlates of stuttering and to derive an effective package programme to suit a majority of stutterers" (Submitted)
- 6) Mr. Y T Balakrishna Acharya - "An investigation into the personality concomitants of essential hypertension" (Submitted)
- 7) Mr. Antony Thomas - "An attributional approach to the expectancies of control, self-esteem, purpose in life, alienation in stutterers, non-stutterers and neurotics. (In Progress)
- 8) Mr. G Jayaram - "Identification and assessment of reading disability among children - an information processing approach" (In Progress)
- 9) Mr. Kalyan Kumar - "Effects of preparatory stages of Astanga Yoga in the personality characteristics of the practitioners" (In Progress)

M.Sc. DISSERTATIONS CARRIED OUT:

Department of Audiology

Guide

1. Comparision of functional and insertion gain in body level hearing aids users.- Niladri Choudri. Roopa Nagarajan
2. Cochlear conduction in individuals with conductive pathology - a study using the principle of remote masking - Harisadan Patra. Roopa Nagarajan

Department of Speech Pathology

3. The time factor in aphasic evaluation - A pilot study on the W.A.B. - Jyoti S Balji Dr.Prathibha Karanth
4. Test of word finding abilities in children (Gujarati) - Javer Gala "

5. Scales of early communication skills for hearing impaired -
Normatization on Indian population
- C.S.Swathi
6. Linguistic profiles of Aphasia sub types - Suchitra Narasimhan
7. The developmental nature of whisper in children - Prema Kumari C B Dr. G.Purushothama
8. Structural variation and didocho-kinetic sequencing in cerebral palsy - Renuka M R.Manjula
9. AAC in India - The current status of Art - C H Balaraju Dr. K.C.Shyamala
10. TPVT - A screening picture vocabulary stest in Tamil - S Buvaaneswari "
11. Mean length of utterance in mentally retarded children (Bengali) - Pitu Naskar "
12. Perceptual judgement of speech intelligibility in cerebral palsied children - S Stella Mary Dr. K C Shyamala

Department of Speech Sciences

13. Acoustic analysis of speech of Laryngectomees with different types of B.S. Prosthesis - Santosh Kumar SM Dr. N.P. Nataraja
14. Cross Linguistic study of some temporal parameters -M.P.Ravanan "
15. Automatic extraction of EGG parameters for diagnosis of dysphonias - S.N.Jukar "
16. Temporal and acoustic analysis of Oesophageal speech -M.N.Balakrishna "
17. A synthetic test of Rhythm patterns - Jayanti Ray Dr.S.R.Savithri
18. Development of coarticulatory perception in children - C S Bhuvaneswari "
19. Trading relationship between spectral and temporal features in stops - Nirmal Kumar Samanta "
20. Is it closure or VOT? - Rajakumar T "

21. Development of coarticulatory production in children - P G Ganesh "
22. Performance of hard of hearing children on a test of stress - K Sarumathi "
23. H/N Ratio: Quantification of Hoarseness C.S. Venkatesh
- C B Pathak

INDEPENDENT PROJECTS:

The following Independent Projects of I M.Sc students as part fulfillment of their course, were carried out in the Department of Audiology.

Name of the Independent Project	Guide
1. Audio visual script on insertion gain measurement.	Dr. S. Nikam
2. Cochlear implants for the uninitiated.	"
3. Audio cassette on hearing conservation program.	"
4. Impedance audiometry - A script for video cassette.	"
5. Use of extended high frequency for early identification of hearing loss.	"
6. comparison of coupler measurement and insertion gain measurement of shell molds and skeleton molds for BTE users.	"
7. Audiological evaluation - A script for video cassette.	"
8. The effect of positive venting valve on the frequency response of different categories of hearing aids - A coupler measurement.	"
9. An audio cassette on calibration of audiometers.	"
10. Man-Power resource in speech & hearing - earmold.	"

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| 11. Survey on awareness of hearing loss. | Dr. S. Nikam |
| 12. Comparison of transmission loss with and without ear plugs made use is different methods. | " |
| 13. BSERA - A script for video cassette. | " |
| 14. Speech reading on audiovisual presentation. | " |
| 15. Video script for hearing conservation. | " |
| 16. Comparing the efficacy of FM system against the conventional hearing aid. | " |
| 17. A survey on community noise. | " |
| 18. Infant screening using the high risk check list. | " |
| 19. Evaluation of CFA in BTE hearing aid user. | " |
| 20. Audio cassette and POP in Urdu on early identification of hearingloss. prevention and hearing conservation. | " |
| 21. Guidelines to set-up an earmold lab. | " |
| 22. Audio visual script for AIDS. | " |
| 23. Factors affecting causation of hearing loss and follow-up in females. | " |
| 24. Portable mini loop system. | " |

SCIEINTIFIC PAPERS PUBLISHED/SENT FOR PUBLICATION:

Department of Audiology

Nikam, S, "National Institute of Higher Learning: All India Institute of Speech and Hearing, Mysore". In Speech and Hearing in India, 30 years (Ed.) N.Rathna, Silver Jubilee ISHA, Bangalore 1993

Rajalakshmi K, "Noise Pollution" Vasundhara Science Centre Bulletin

Vanaja C.S. (co-authored) "Functional hearing loss: A few case reports", JALISH (Submitted)

Department of Speech Pathology

Karanth, P & Suchitra, M.G. "Literacy Acquisition and Grammaticality Judgement in Children" - In R. Scholes & B. Willis (Ed) "Literacy: Linguistic and Cognitive Perspectives". Lawrence Erlbaum Associates, New Jersey

Suchitra M.G. & Karanth, P. "Linguistic Profile Test (LPT) - Normative data for children in grades I-V - JAIISH In Press

Prakash P, Rekha D, Nigam R and Karanth P, "Phonological Awareness, Orthography and Literacy". In R.Scholes and B.Willis (Ed) Literacy: Linguistic and Cognitive Perspectives, Lawrence Erlbaum Associates, New Jersey - In Press

Karanth P, Aparna Vijayan & Asha Kudva "Literacy & Language Processes - Orthographic and structural effects" Submitted:

Karanth P. "Literacy and Linguistic Awareness", Lawrence Erlbaum Associates - Submitted.

Karanth P, (1993), "Growth of Language & Language Pathology: Evolution, Current Status and Future trends", Silver Jubilee ISHA Volume.

Purushothama G, (1993) "Professional Writing in Speech and Hearing", ISHA Volume

Shukla R.S "Speech characteristics of the hearing impaired: A tutorial review" JAIISH - In Press

Department of Speech Sciences

Nataraja, N.P. 1992 "Summary of the work done at the Department of Speech Sciences" Proceedings of the Workshop on Speech Technology, 102-111

Nataraja, N.P. 1993, "Manpower development programs: Evolution, current status and future trends" Silver Jubilee Issue, ISHA, 34-43

Nataraja, N.P. 1993 "Indian Speech and Hearing Association" Silver Jubilee Issue, ISHA, 163-167

Savithri, S.R. 1992 "Development of voicing contrast in 3-8 old Kannada speaking children" Proceedings of the Workshop on Speech Technology. 61-61

Savithri, S.R. 1992 "Child Perception", Proceedings of the International Workshop on Recent Trends.

- Savithri, S.R. 1993 "Growth of Speech Sciences in India: Evolution, current status and future trends, Silver Jubilee Issue, ISHA, 61-71
- Savithri S.R., (Co-authored) "Speech rhythm in Kannada", JISHA, Vol.9, 1992, In Press
- Savithri S.R., "Closure duration as a cue to the perception of place and manner of articulation of plosives in Kannada, JISHA, Vol.9, 1992
- Savithri S.R., 1993 "Fluency disorders: Assessment and Management ISHA Monograph

Department of Clinical Psychology

Bhavani, A.D. "Pre-school education and pre-vocational training for the retarded children".

Antony Thomas. "A Chapter on "Psychosocial aspects of disability" for a course on Guidance launched by NECRT and Indira Gandhi University.

Antony Thomas "Psychosocial approaches in the education of the deaf" Souvenir, Marthoma School for the Deaf, Kerala

PAPERS PRESENTED AT SEMINARS/WORKSHOPS/CONFERENCES:

Department of Audiology

Ms. Roopa Nagarajan

"Examination pattern practicals-past and future" at Seminar on professional training in Speech and Hearing at NIMHANS, Bangalore - October 1992

Ms. Asha Yathiraj

"Recent advances in Paediatric Audiology" at an Indo-US, CME program in Speech and Hearing and Neurotology, GH Madras.

Department of Speech Pathology

Ms. Basanti Devi

"Assamese films as image makers of women" in the Seminar on Medical Responses to Feminist concerns" organized by the Centre for Women's Studies, Institute of Development Studies, University of Mysore - 31.3.1993.

Department of Speech Sciences

Savithri S.R "Standards & Infrastructures to start training programme, ISHA Seminar on Professional Training in Speech and Hearing in India - 2-10-1992

Savithri S.R., "Course content for B.Sc & M.Sc (Speech and Hearing)" ISHA Conference - 29-1-1993

Venkatesh C.S "Theory, past, present and future" ISHA Seminar or Professional Training in Speech and Hearing in India - 2-10-1992

Venkatesh C.S., "Development of the Electroglossograph" ISHA Conference - 29-1-1993

Department of Electronics

Satish H.S. "Development of EGG" at the 25th ISHA Conference, Bangalore - January 1993

WORKSHOPS/SEMINARS/CONFERENCES ATTENDED:

Department of Audiology

Ms. Roopa Nagarajan

1. Attended the ISHA Seminar on "Professional training in Speech & Hearing in India" at NIMHANS, Bangalore - 1-2 October 1992.
2. Attended the National ISHA Conference at Bangalore - 29-31 January 1993.

Ms. Asha Yathiraj

1. Attended a Two day Workshop on "Juvenile Justice" at Administrative Training Institute, Mysore - 7-1-93 and 8-1-93
2. Participated as an Expert in a panel discussion "Recent concepts in the management of young deaf" at an Indo-US C.M.E. programme in Speech and Hearing & Neurology at General Hospital, Madras.

Ms. C S Vanaaja

1. Attended the Workshop on "Computer application in speech and hearing disorders" - 21-23 September 1992

Department of Speech Pathology

Dr. Prathibha Karanth

1. Participated as Resource person in the final Conference of IDRC-Human Development and Family Studies Research Network at M.S. University of Baroda, Baroda - 11-15 July 1992
2. Participated in the Workshop conducted by the University Grants Commission for formulating bilingual syllabus (English & Hindi) and setting of question papers in Speech and Hearing at New Delhi - September 1993
3. Participated as an expert in the panel discussion on "Professional Training in Speech and Hearing in India" and also chaired a scientific session on "Language Pathology" at the Silver Jubilee National Conference of Indian Speech and Hearing Association held at Bangalore - 29-31/1/1993.

Dr. G Purushothama

1. Participated in the National Conference of Indian Speech and Hearing Association as President and chaired a scientific session on "Rehabilitation" held at Bangalore - 29-31 January 1993

Dr. R S Shukla

1. Participated as an expert observer in the panel discussion on "Professional training in Speech and Hearing in India" and also was in charge of scientific program of National Conference of Indian Speech and Hearing Association held at Bangalore - 29-31 January 1993.

Ms. R Manjula

1. Seminar on "Early diagnosis and therapy of developmental disabilities in the first six months of life" organized by the Spastics Society of Tamil Nadu in collaboration with Max Muller's Bhavan, Madras - 23 January 1993.

Ms. Indira Kumari

1. Attended a two day Workshop on "Juvenile Justice" at Administrative Training Institute, Mysore - 7/8-1-93

Ms. K S Prema

1. Workshop on "Script writing for educational TV" at the Regional College of Education, Mysore - 10-8-92 to 11-8-1992
2. One day Hindi Workshop at AIISH, Mysore - 30-3-1993

Department of Speech Sciences

Dr. S R Savithri

1. ISHA Seminar on "Professional training in Speech and Hearing in India" on 1st and 2nd October 1992 at NIMHANS, Bangalore.
2. National ISHA Conference from 29th to 31st January 1993 at Bangalore

Mr. C S Venkatesh

1. ISHA Seminar on "Professional training in Speech and Hearing in India" on 1st and 2nd October 1992 at NIMHANS, Bangalore.
2. National ISHA Conference from 29th to 31st January 1993 at Bangalore

Department of Clinical Psychology

Dr. A.D. Bhavani

1. Symposium on the "Role of Society in the welfare of the handicapped" organized by Mythri Training Centre for the M.R. Children
2. Conference on Behavioral Medicine at NIMHANS, Bangalore
3. Conference of Indian Speech & Hearing Association at Bangalore - February 1993

Dr. P Vidyasagar

1. Conference on Behavioral Medicine at NIMHANS, Bangalore

Mr. Antony Thomas

1. Conference on Behavioral Medicine at NIMHANS, Bangalore
2. UGC Workshop on Special Education organized by P.G. Department of Education, Mysore

Department of Electronics

Mr. S.R. Srinivas

1. Seminar on Solar Thermal Devices and applications, at Indian Institute of Science, Bangalore, July 1992

EQUIPMENT PROCURED DURING THE YEAR

Department of Audiology

1. Artificial mastoid B&K 4930 with adaptor JJ 2617
2. 1" measuring microphone B&K 4144
3. Krykard stabilizer
4. Arphi ITE hearing aid
5. Stethoscope amplifier
6. Split AC (Voltas)
7. Alps BTE power master - One
8. Computer - PC AT 386 - One
9. Orders placed for Programmable B.T.E.
10. Orders placed for Tactaid II

Department of Speech Pathology:

- 1) Computer - HCL PC-AT 386
- 2) Taperecorders - 2 Nos.
- 3) Metronome

Department of Electronics

The required spares for service of equipments and hearing aids were procured.

One PC AT 386 was procured.

Equipment worth \$ 214000.00 are being procured with funds from W.H.O.

MATERIAL DEVELOPMENT:

Department of Audiology:

- Copies of the video cassette on Communication problems of the aged for Helpage India project were made.
- prepared transparencies on Anatomy and Physiology
- Terminology on immittance audiometry based on an independent project submitted by a I M.Sc. student was finalized.
- A guide for hearing aid users was got printed (One of the independent project was used as resource)
- A questionnaire on noise and it's effects on industrial workers has been prepared.

Department of Speech Pathology:

- (1) Correspondence therapy lessons for misarticulation cases in Kannada and English were developed and are being used regularly with demonstration therapy cases. Self therapy for stutterers by Malcolm Fraser in English and its Kannada translation were developed and are being used with adult stutterers. Kannada versions of the John Tracy lessons were developed and are being given to parents of hard of hearing children for home training. Audio cassettes for auditory training and nursery rhyme were developed and are being regularly used in therapy.
- (2) Two cassettes on speech stimulation have been prepared in Kannada and English for student training and parent guidance describing various techniques for speech stimulation.
- (3) Audio cassettes on sound effects have been prepared consisting of various types of sounds (animals sounds, vehicle sounds, household sounds, environmental sounds, musical sounds etc) along with pictures for auditory awareness and discrimination training.
- (4) Charts and flash cards have been prepared for regular language therapy and concept teaching.
- (5) UNICEF project on "Production of Language Training Material in major Indian Languages" is in progress.
- (6) Video recording of speech and language disorders for public education and student training is in progress.
- (7) A video tape of two hours duration on "Introduction to Communication Disorders" describing different types of

communication disorders, their evaluation and treatment was produced by Dr. Prathibha Karanth in collaboration with R Manjula, YV Geetha, KS Prema & Indira Kumari.

- (8) Audio cassette on "Speech/Language stimulation techniques in Kannada"

Department of Speech Sciences:

Two audio cassettes - one on Organic Voice disorder and another on Prosody have been prepared.

Department of Clinical Psychology:

- 1) Test for the assessment of cognitive functions
- 2) Personality Tests
- 3) Aptitudes, Interests and vocational assessment materials
- 4) Neuropsychological Test materials
- 5) Therapy materials such as Relaxometer, Voice-lite, Alpha Sensor, Bug-in the Ear etc.

Department of Electronics:

- 1) Video recording was carried out on Speech and Hearing problems and communication disorders for the age of duration 20 minutes each. The cassette on communication disorders for the age was done for Helpage India.

SHORT TERM COURSES

Training Section:

A total of 64 Short-Term Training Programs were introduced of which five Short-term training program were conducted in the year 1992-93.

- | | |
|--|--------------|
| 1. Efficient use of voice and speech | May 1992 |
| 2. Hearing aids and earmolds | July 1992 |
| 3. Hearing aid, trouble shooting and hearing aid maintenance | August 1992 |
| 4. Orientation course for B.Ed. Teachers | August 1992 |
| 5. Objective evaluation of voice | January 1993 |

Department of Audiology:

1. Short term program was carried for the Armed Forced Medical Professionals on (a) Audiometer (1 Unit) and (b) Audiological tests (1 Unit).
2. Short term program was carried out for NCERT teachers on (a) Hearing aids (1 Unit), (b) Trouble shooting and maintenance and hearing aids (1 Unit).
3. Three external candidates underwent training to make custom earmolds.

Department of Speech Pathology:

- a) Conducted a Two day Seminar on "Language Tests and Testing Procedures" at the Institute of Speech and Hearing, Bangalore - 14-15 August 1992
- b) Short term training program was arranged for four Armed Force Medical College Professionals on Misarticulation by Dr. R S Shukla (a unit of 4 hours) from 26.10.1992 to 28.10.1992.
- c) A Workshop on 'Aphasia' for the trainees in the Postgraduate Diploma course in Special Education for the Neurologically impaired was held at the Centre for Special Education at Spastics Society of India, Madras on 8, 9 & 10 February 1993 and the following lectures were delivered.

- 1) Introduction to Aphasia and allied disorders:
 - a) The brain and language: Historical perspectives
 - b) Lesions and types of Aphasia
 - c) Assessments and therapy
- 2) Child Language Disorder:
 - a) Introduction to child language acquisition
 - b) Assessment of child language acquisition
 - c) Differential diagnosis
- 3) Management procedures and intervention techniques for developmental dysphasia/dyspraxia:
 - a) Introduction, definition and characteristics.
 - b) Assessments for developmental dysphasia/dyspraxia.

Department of Speech Sciences:

1. An Orientation Course on Efficient use of Voice and Speech on 25-26 May 1992, for announcer of AIR
2. A Workshop on Computer Applications in Speech & Hearing from 21st September 1992 to 23rd September 1992, were conducted.
3. Short term training of Objective Evaluation of Voice on 25th and 27th January for 9 students and 2 staff of BYL Nair Hospital, Bombay

Department of Electronics:

1. Conducted a week long Orientation course on computer applications to the Institute staff in two batches. Guest Lectures were arranged for the Institute staff on "Application of PCs".

STAFF ACTIVITIES

Department of Audiology:Dr. S Nikam, Professor & HeadGuest Lecture

Gave a talk on "Noise Pollution" at the National Seminar on Radiation, Energy and Man, held at the Department of Physics, University of Mysore, Mysore - October 1992

Chairperson:

Board of Studies (Speech & Hearing), University of Mysore
 Board of Examiners (Speech & Hearing), University of Mysore
 Board of Studies in Special Education, Sri Padmavathi Mahila Viswavidyalaya, Tirupathi
 Convenor: Panel of Hearing Aids and Audiometers of BIS.

Member:

- Academic Council, University of Mysore
- Committee Member-University Grants Commission, New Delhi
- Indian Council of Medical Research, New Delhi
- Rate Contract Committee, Ministry of Welfare, Govt. of India
- Rehabilitation Council of India
- Review Committee,
- National Council for the Handicapped, Ministry of Govt. of India, New Delhi
- Acoustical Sectional Committee of the BIS
- IALP
- ICRA

Ms. Roopa Nagarajan, Lecturer

- Vehicle In-charge
- Attended classes on computer application/office automation.
- Gave a lecture on "Trouble shooting of hearing aid"

Ms. Rajalakshmi K, Lecturer

Radio program was recorded on A.G.Bell on A.G.Bell's Birthday.

Mr. Animesh Burman, Clinical Supervisor

Security In-charge

Department of Speech Pathology:

Dr. Prathibha Karanth, Professor & Head

Principal Investigator: Project on "A Developmental Investigation of onset, progress and stages of literacy acquisition - its implications for instructional process" approved by NCERT, New Delhi.

Principal Investigator: Project on "Production of Language Training Materials in major Indian Languages" funded by UNICEF

Co-ordinator: Project on Development of Video tapes of speech and hearing disordered cases for public education and training, AISH.

Visited NIMHANS, Bangalore for discussions on interpretation of scan data on the aphasics included in the ICMR Project on 2.4.1992.

Participated in the centralized evaluation for the UGC National Level Test for Jr. Research Fellowships and Lectureship at Poona - 20.8.1992.

Participated in the Workshop conducted by the University Grants Commission for formulating bilingual syllabus (English & Hindi) and setting of question papers in Speech and Hearing at New Delhi - September 1992.

As an expert in the panel discussion on "Professional Training in Speech and Hearing in India" and also chaired a scientific session on "Language Pathology" at the Silver Jubilee National Conference of Indian Speech and Hearing Association held at Bangalore - 29-31/1/1993.

Participated in the Evaluation work of National Level Test for JRFs conducted by University Grants Commission at Poona -12.3.1993.

Participated as a Member in the Selection Committee for selection of Addl. & Associate Professors in Speech Pathology under Assessment Promotion Scheme at NIMHANS, Bangalore - 21 & 22 March 1993.

Participated as a Member in the Local Inquiry Committee for inspection for grant/renewal of affiliation of Institutions for the academic year 1993-94 at Mangalore University, Mangalore on 4th, 5th & 6th March 1993.

Doctoral Thesis guidance:

- 1) Ms Uma Subramaniam - "Acquisition of Syntax in the Hard of Hearing" completed and submitted to the University of Mysore during August 1991

- 2) Mr. I.A.Subba Rao - "A Comparative Analysis of Language in Mentally Retarded Children"
- 3) Ms. Y.V.Geetha - "A Comparative study of Stuttering behavior"
- 4) Ms. K.S.Prema - "Reading Acquisition profile in kannada"

Guest Lectures:

Delivered a talk on "Language development in hearing impaired" at Regional College of Education, Mysore - 27.10.1992.

Inaugurated the Mysore Psychological Society, Mysore and delivered a talk on "Brain and Language" - 12.11.1992.

Delivered lectures on "Speech development in Deaf Children" at the Department of Studies in Education, University of Mysore, Mysore - 3.12.1992.

Delivered a lecture for a Regional Level Training Program for Resource Teachers working in IED Schools at Regional College of Education, Mysore - 2.3.1993.

Membership of Scientific/Administrative Committees:

Clinic in-charge, AIISH
 Member - Selection Committee, AIISH
 Member - Departmental Promotion Committee, AIISH
 Member - Academic Sub-Committee, AIISH
 Member - Board of Studies in Speech & Hearing, Mysore University, Mangalore University & Bangalore University
 Member - Local Inquiry Committee, Univ. of Mangalore
 Member - International Society for Augmentative and Alternative Communication, Toronto, Ontario, Canada
 Member - Lab at Montreal, Canada
 Examiner - B.Sc & M.Sc (Sp. & Hg) University of Mysore, Mysore
 B.Sc, Mangalore University
 U.G.C. National Tests, Delhi.
 Tirupati University, Tirupati
 M.Sc in Child Development, M.S.University, Baroda
 D.Ed.- Department of Education, (GOK) Suvarna Institute of Speech & Hearing, KGF

Dr. G Purushothama, Professor of Speech Pathology

Chaired a scientific session on "Rehabilitation at the National Conference of Indian Speech and Hearing Association held at Bangalore from 29-31 January 1993

Guest Lectures:

Delivered lectures on "Speech Defects" and "Speech Training programme" at the Department of Studies in Education, University of Mysore, Mysore - 25 & 26.11.1992.

Membership of Scientific/Administrative Committees:

- Examiner, University of Mysore, Mysore.

Ms Basanti Devi, Lecturer in Linguistics

Project proposal on "Developmental Milestones of Language Acquisition in Indian Languages: Kannada and Hindi" together with Dr. Shyamala KC has been approved for research grant by ICSSR and is in progress.

Participated in a follow up Meeting of the Workshop on 'Developing Multipurpose Test Bank in Indian Languages' conducted by Central Institute of Indian Languages held at Mysore from 18.5.1992 to 25.5.1992.

Membership of Scientific/administrative Committees:

- Examiner, Linguistics and Phonetics for B.Sc. (Speech and Hearing), Mangalore University.
- Warden, Ladies Hostel, AIIISH
- Member, Indian Speech & Hearing Association
- Examiner, University of Mysore, Mysore.

Dr R S Shukla, Lecturer in Sp. Pathology

Guest Lectures

Delivered lecture on "Cleft Palate speech assessment and management" at a Workshop conducted by Department of Plastic Surgery, Mysore Medical College, Mysore - April 1992

Delivered a lecture on "Artificial Larynges" to M.E. students of JCE, Mysore - February 1993.

Membership of Scientific/Administrative Committees:

- Additional Secretary of Indian Speech and Hearing Association.
- Examiner, University of Mysore, Mysore.

Ms R Manjula, Clinical Lecturer

Co-Investigator of the Project on "Material development for language training in major Indian languages" funded by UNICEF

Membership of Scientific/Administrative Committees:

- Examiner, University of Mysore Mysore

Dr Shyamala Chengappa, Lecturer in Lang. Pathology.

Co-investigator of the Project on "Developmental milestones of Language Acquisition in Indian Languages - Kannada & Hindi" to ICSSR, New Delhi - in progress.

Ms Y Y Geetha, Clinical Supervisor

Participating in the UNICEF Project on "Production of materials for training in major Indian Languages" for the speech and language handicapped.

Assisted in production of video tapes on speech and language disorders for public education and student training

Ms. Indira Kumari, Itinerant Speech Therapist

Assisted in the production of video tape on "Communication Disorders"

Guest Lectures

Lectures on Identification and management of children with speech and hearing disorders to Nursery Training Teachers at St. Joseph's Institution - 8 February 1993

Lecture on Educational opportunities for the hearing impaired and levels of integration to a group of Teacher Trainees at Institute of Speech and Hearing, Bangalore - 6 March 1993.*

Ms. Prema K S, Clinical Assistant:

Participating in the UNICEF Project on "Production of materials for training in major Indian Languages" for the speech and language handicapped.

Assisted in production of video tapes on speech and language disorders for public education and student training.

Obtained UGC eligibility for Lecturership.

Ms Vijayashree, Clinical Assistant

1. Adaptation of Test Materials for use in Diagnostics

- Deep Test of Articulation in Kannada - Sentence form
- An Articulation Test Battery in Malayalam.
- Receptive vocabulary testing in C.P. population

2. Compiled materials for oral speech mechanism examination and prepared a format for the same.
3. Categorized speech samples of cases with aphasia
4. Prepared proforma for Childhood Stuttering jointly with Ms. Suchitra

Ms Suchitra M G, Research Assistant

- 1) Prepared proforma for Childhood Stuttering jointly with Ms. Vijayashree
- 2) Collected data for the following items:
 - Syllables
 - Syllables with word like stress.
 - Two words with two syllables.

Department of Speech Sciences:

Dr. N P Nataraja, Professor & Head

Participated in the Selection Committee Meeting for admissions to B.Sc. on 7.7.1992 and M.Sc. on 10.8.1992.

Participated in the Meeting of the Principals at University of Mysore on 20.8.1992

Was invited as an expert in the panel discussion on "Professional training in Speech and Hearing in India" at ISHA National Conference - 29th to 31st January 1993.

Doctoral Thesis Guidance:

- Mr. B Rajashekar - "Acoustic analysis of alaryngeal speech (TEP with B.S. Prosthesis and Oesophageal modes)" (Submitted)
- Mrs. R Manjula - "Intonation in Kannada" (In Progress)
- Mr. C S Venkatesh - "Acoustic analysis of Kannada speech sounds" (In Progress)
- Mr. N K Gopal - "Acoustic characteristics of the speech of the hearing impaired" (In Progress)

Dr. S R Savithri, Lecturer

Attended PAC Meeting on Neurobiology at the Department of Science and Technology, New Delhi on 30.7.1992 and presented the project proposal entitled "Speech Perception in children: Temporal aspects".

Training Co-ordinator

Editor, JISHA

Mr. C S Venkatesh, Lecturer

- In-charge, Purchase Section

Department of Clinical Psychology:

Mr. P Kalaiah, Reader

- Head of the Department In-charge
- Estate Officer, AISH
- Examiner, P.G.Department of Psychology, University of Mysore
- Member, Behavioral Medicine Society

Dr. A.D.Bhavani, Lecturer

- Fellow & Life Member, Behavior Medicine Society

Dr. P Vidyasagar, Lecturer

- Guiding two doctoral students

Mr. Antony Thomas, Asst. Lecturer

- Invited from Karunalya School for M.R., Kollegal for psychological assessment of mentally retarded children.
- Fellow and Life Member, Behavior Medicine Society
- Member, Indian Speech & Hearing Association

Mr. G Jayaram, Clinical Assistant

- NSS Program Officer

Mr. Y T Balakrishna Acharya, Research Assistant

- Assisting the Training Co-ordinator

Department of ENT:Dr. M V Susheela, Professor & Head

Chief Guest at Clinical Association and talked on Deafness.

Gave a lecture on "ENT problems in Cleft Palate patients and their treatment" at the Department of Plastic Surgery, Mysore Medical College

Department of Electronics:Mr. H S Satish, Electronics Engineer

Attended script writing and TV production program at RCE, Mysore - August 1992.

Mr. M K Seetharam, Electronics Engineer

Principal Investigator for the project entitled: Visual Telephone Bill Indicator.

Smt. B R Chudamani, Jr. Technical Officer

Attended and made arrangements for "Space and Environment" exhibition of SJCE, Mysore - August, 1992.

Carried out Noise Measurement of the silencer of Yezdi 250cc Roadking Model, M/s. Ideal Jawa, Mysore and M/s.TVS Electronics, DC Brushless fans - March, 1993.

Mr. S R Srinivas, Jr. Technical Officer

Involved as the Co-investigator for the project entitled: Visual Telephone Bell Indicator.

Attended and made arrangements for "Space and Environment" exhibition at SJCE, Mysore - August 1992.

Mr. B N Balasubramanya, Jr. Technical Officer

Attended script writing and TV production program at RCE, Mysore - August 1992.

Carried out Noise Measurement of the silencer of Yezdi 250cc Roadking Model, M/s. Ideal Jawa, Mysore and M/s.TVS Electronics, DC Brushless fans - March, 1993.

Library and Information Centre:Mr M V Govindarajan, Librarian

Life member - Indian Library Association
 - Medical Library Association of India
 - Indian Speech and Hearing Association

LIBRARY AND INFORMATION CENTRE

The AllSH Library and Information Centre is nucleus for the information retrieval in the speciality of Speech and Hearing and it could be made as National focal point/data base in the speciality.

This Library at present is equipped more than 10,000 volumes of books and subscribing a good number of specialised foreign/Indian journals covering all the related subjects. The Library has a separate reference section having current and back volumes of professional journals, rare and specialised books encyclopaedias, handbooks, project reports, independent projects, master's dissertations, doctoral thesis, proceedings of the workshop/conferences, rare collection of reprints and also audio-visual cell which comprises of microfiche readers, slides, films, a good number of pre-recorded education cassettes.

The Library and Information Centre is providing various services. They are:

1. Regularly offers literature search facility on topics of interest to its clientele;
2. Specialised subject bibliographies on specified topics are being offered to the researchers;
3. Inter-library loan facilities and resource sharing activity is being done; and
4. Provide reprographic service.

As a member of the Mysore city libraries consortium, our library is providing all the library facilities to the teaching faculty and students of the member libraries of the consortium. In turn our faculty members and students are getting the same benefit by the member libraries of the consortium.

PLANNED ACTIVITIES:

It is planned to completely automise the library activities. In this connection we have acquired two computers.

ANNUAL STATISTICS:

Number of volumes at the end of the year 1991-92	10045
Number of volumes added in the year 1992-93	156
Number of Journals subscribed to	53
Number of journals and books issued and consulted	70252

ACCOUNTS

SUMMARY OF PROVISIONS FOR REVISED ESTIMATES 1992-93

AND

BUDGET ESTIMATES 1993-94

PLAN

				Rs. in lakhs
Sl. Budget Head No.	B.E. 1992-93	R.E. 1992-93	B.E. 1993-94	B.E. 1993-94
			As proposed by (1)	As agreed to by Rev. Com.
1. Salaries	4.50	1.88	7.96	6.96
2. Allowances other than travel	0.05	0.10	0.15	0.15
3. Travel expenses	-		0.50	
4. Payments to professional services	0.05	0.08	0.10	0.10
5. Other charges	0.50	16.61	1.75	
6. Equipment	21.05	41.83	8.00	8.00
7. Capital works	22.20	4.50	29.00	27.75
8. Contributions to Funds	-	5.00		
9. Library, Journal etc	-	-		4.50
10. Furniture	-	-	7.54	7.54
11. Advances to staff	-	-		
Total :	48.35	70.00	55.00	55.00
Allocation agreed to by the Ministry	20.00	70.00	55.00	55.00

SUMMARY OF PROVISIONS FOR REVISED ESTIMATES 1992-93

AND

BUDGET ESTIMATES 1993-94

NON-PLAN

			Rs. in lakhs
Sl. Budget Head No.	B.E. 1992-93	R.E. 1992-93	B.E. 1993-94
1. Salaries	65.45	65.41	75.97
2. Allowances other than travel	1.25	0.84	0.94
3. Travel expenses	0.90	0.75	1.00
4. Stipends/Fellowships	4.10	2.59	1.91
5. Other charges	11.00	11.45	13.50'
6. Contributions to Funds	4.50	4.80	5.20
7. Furniture	0.50	5.00	5.00
8. Equipment	1.00	1.00	1.00
9. Library, Documenta- tion	4.30	4.50	5.00
10. Wages (Security)	1.63	0.70	0.80
11. Payments to professional services	0.75	1.00	1.00
12. Loans & Advances	5.75	11.05	10.45
13. Minor Works	1.80	0.75	0.75
14. Scholarships	-	0.78	0.78
Total :	102.93	110.62	123.30
Receipts	4.93	4.10	4.30
Total :	98.00	106.52	119.00

OFFICIAL LANGUAGE IMPLEMENTATION UNIT

The Official Language implementation unit has made good progress by making earnest efforts to achieve the targets prescribed under Annual programme.

Hindi connected works like translation, reply of case letters in Hindi, Forms, Annual Report, Statement of Accounts and Audit, translation of articles etc., were done by the Official Language Implementation Unit consisting of one Hindi translator and one Hindi-cum-English Typist under the guidance of Director.

OLIC meetings were held regularly every quarters. In addition, the promoters committee consisting of a member each from various Departments/Sections met once in a month and discussed about the better implementation of official language in their respective departments.

"Hindi Day" was celebrated on 14th September 1992 wherein Bishop of Mysore Reverend Father Michelappa was the Chief Guest, Dr. C.N.Keshava Murthy, Professor of Hindi from Mysore University gave guest lecture on the occasion. The winners of various competitions were awarded prizes.

Hindi slogans and word-a-day was written on the notice board.

The cash prize scheme for doing original work in Hindi was continued and Sri K H Radhakrishna, Office Superintendent was awarded 1 prize.

An Inspection Team from the Ministry of Health & Family Welfare visited the Institute on 6.10.92 and inspected the works regarding progressive use of Hindi. The officers appreciated the sincere work done in this regard.

Nominations for various Hindi examinations were also made.

Third One day Hindi Workshop was conducted at the Institute on 30.3.1993. 14 employees from both administrative and technical blocks were trained in the workshop. A report in this connection was sent to the concerned and also published in the leading material news papers.

GUEST HOUSE & DHARMASHALA

1. Utilization of Dharmashala by the cases and their attendants

	April 1992	May 1992	June 1992	
Cases	27	44	51	From 1st July 1992 Rs.5/- per day was fixed
Attendants	27	45	46	
No. of days stayed	92	159	151	The amount collected for the period 1.7.92 to 31.3.1993 = <u>Rs.4,900-00</u>

Note: Till June 1992, accommodation in Dharmashala was provided free of cost

11. Utilization of Guest House by the cases and their attendants and by the officials

Charges up to 1.7.1992
Rs.10/- per bed per day or
Rs.20/- per day per room

Total amount
collected: Rs.16,769-00

Charges from 1.7.1992
Rs.30/- per bed per day or
Rs.60/- per day per room

ABSTRACT

	Rs.	Ps.
Revenue from Dharmashala	4,900-00	
Revenue from Guest House	16,769-00	

Grand Total	21,669-00	

PERSONNEL CELL.

SANCTIONED POSTS AND STAFF POSITION AS ON 31.3.1993

Sl. No.	Group	Sanctioned posts	Staff working	Vacant posts	Position of staff working	
					SC	ST
1.	Group A	34	23	11	4	1
2.	Group B	14	10	4	1	-
3.	Group C	73	67	6	7	2
4.	Group D	54	53	1	18	-
Total		175	153	22	30	3

VISITORS - Public

- 13.4.1992 : M.B.B.S. students from Trivandrum Medical College.
- 3.8.1992 : Institute of Speech and Hearing Diploma students.
- 28.10.1992: Staff, Armed Force Medical College. Poona & IAM, Bangalore
- 11.11.1992: B.Ed. students, Padmavathi University, Tirupati
- 11.11.1992: Nursing students, Kempegowda Nursing Institute, Bangalore
- 27.11.1992: 127 MBBS students, Trivandrum Medical College
- 30.11.1992: 15 students, Department of Psychology, Calicut.
- 23.12.1992: 25 Community Based Rehabilitation Workers, Action Aid India, Bangalore
- 14.3.1993 : NCERT student trainees, New Delhi
- 15.3.1993 : Trainees, Spastic Society of India, Tamil Nadu