

**ARAVIND EYE HOSPITALS • ARAVIND CHILDREN'S HOSPITAL • AUROLAB
LIONS ARAVIND INSTITUTE OF COMMUNITY OPHTHALMOLOGY**

Highlights '96

Mother's and Sri Aurobindo's symbols



1996 in perspective

*The year 1996 has been a year of strategic development and many seeds were sown to take Aravind closer to its goal of eradicating needless blindness. Aravind started off by providing direct **service** to the visually impaired and the blind. The quantum of service has grown rapidly during the last two decades and in 1996 over 800,000 out-patient visits were handled and over 100,000 surgeries were performed.*

*Once the service activities were in place, the next area of focus became **training** in order to meet internal needs, contribute to the nation's need for more ophthalmic manpower and further to develop skills of the existing manpower. This focus led to the development of several residency programmes, fellowship training, skill development courses in IOL microsurgery and indirect ophthalmoscopy, and continuing medical education programmes. In 1996, Aravind training programmes added eleven ophthalmologists to the country and trained over 120 ophthalmologists through the skill development courses. Several hundred ophthalmologists and eye health professionals have benefited from the various CME programmes.*

*With well established service and training programmes, the next logical step was **research**. Keeping in line with Aravind's mission, the focus of research was to develop cost-effective clinical and delivery systems. Over the years, Aravind has collaborated with several major Universities and research organisations across the world to carry out population based surveys, clinical trials and operations research. Pioneering work has been done in the areas of Vitamin A deficiency, Rapid assessment techniques and cataract delivery systems. 1996 saw the conclusion of the Madurai IOL study which was carried out with technical support from WHO and National Eye Institute. In addition to establishing the clinical outcomes, the study resulted in the development of a questionnaire instrument that allows the measurement of quality of life relating to vision and vision function. This instrument has already been successfully used in other studies in India, Nepal and China. A spin-off in the pursuit for cost effectiveness has been the establishment of Aurolab which has brought the Cataract Surgery with IOL implant within the reach of even the poor in over 70 countries to which Aurolab exports the IOLs. Having done all these activities Aravind engaged in a beneficiary assessment exercise only to realise that less than a third of the patients needlessly blind had received the required treatment. Several more Aravind-like organisations are needed across the country, hence a process of **replication** was conceived. At the heart of the process is a desire to share with other eye*

hospitals all that has been learnt over the years and further support them through a process of capacity building and required management training. This effort was given a formal structure with the inauguration of the Lions Aravind Institute of Community Ophthalmology (LAICO) on the 25th February of 1996. Aravind and LAICO are now working with over 20 eye hospitals across the country in partnership with the Lions International and Sight Savers. Aravind thus continues its quest to bring help to the blind and in the process has discovered the joy of working with others for others.

R.D. Thulasiraj

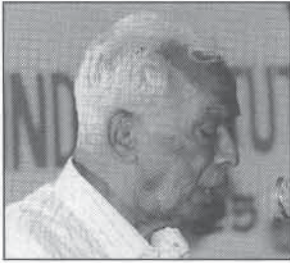
Administrator

Highlights

Inauguration of Lions Aravind Institute of Community Ophthalmology (LAICO)



The Lions Aravind Institute of Community Ophthalmology originated with a mission to contribute to the prevention and control of global blindness. Although many of the activities proposed for the Institute were already in progress at Aravind, the support from SightFirst allowed the establishment of a formal institution to give more structure and expand these programmes. LAICO was born out of this support and the building was officially inaugurated on 25th February by Dr. Carl Kupfer, Director, National Eye Institute, USA.



Dr. G. Venkataswamy

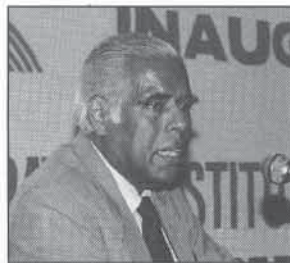
Felicitations by:



Dr. Fred Munson



Dr. Carl Kupfer Director, National Eye Institute, inaugurating the LAICO building



Dr. Pararajasegaram

Dr. G. Venkataswamy spoke about the objectives of the institute. Ln. A. Shanmuga Sundaram District Governor, (324 B3) presided over the function and Dr. Pararajasegaram, President of the International Agency for the Prevention of Blindness (IAPB) released the first issue of LAICO's Community Ophthalmology newsletter "Illumination".



Mr. John Lord with District Governor Ln. Shanmugha Sundaram



Ln. NAK Gopalakrishna Raja

Many distinguished guests were present to witness the birth of a new effort. Dr. Fred Munson, Consultant, Hospital Administration, USA; Mr. John Lord, Project Co-ordinator, LCIF; Dr. Leon Ellwein, National Eye Institute, USA; Dr. George Hilton, University of California, USA; Dr. Suzanne Gilbert, Seva Foundation, USA; Ln. P.S. Ranganathan; Ln. P. Gangadhara Rao, Council Chairman, MD 324; Ln. G. Ramasamy, International Director Endorsee; Ln. Vispy Engineer, International Secretary for South East Asia; Dr. Serge Resnikoff, Lions Liaison Officer and other prominent guests offered felicitations.



Dr. Suzanne Gilbert

The Second National Convention of District Blindness Control Societies



Dr. Hans Limberg



Dr. D. Bachani



Dr. Chandra Shekar Shetty

The Second National Convention of DBCSs was held at the Lions Aravind Institute of Community Ophthalmology, Madurai from 31st October to 2nd November. This served as a forum for the exchange of success stories, innovations and discussions of common constraints in the planning, implementation and evaluation of the National Programme for Control of Blindness at the district level in India. 'Patient Centered Eye Care' was the convention theme focussing on the fact that the "customer" or "patient" is key to the success or failure of any health programme including blindness control.

A total of 190 delegates from 19 states in India attended the convention. 128 District Programme Managers, 52 District Ophthalmic Surgeons and 10 NGO representatives and State Programme Officers participated. About 25 officials from the Ministry of Health & Family Welfare, Government of India, Government of Tamil Nadu, DANPCB, international service organisation like Lions, Sight Savers and CBM attended the convention.

Topics discussed include

- Demand generation for eye care
- Planning and development of Manpower
- Co-ordination with local NGO's and Panchayat
- Financial management of DBCS
- Procurement and logistics: Equipment and consumables
- Organising screening and surgical camps
- Prevention and control of infections
- Information management
- School eye screening

On all days of this convention, the ophthalmologists were allowed to observe the operations in the operation theatre at Aravind Eye Hospital. The



LAICO Jr. Faculty Priya presenting a memento to Dr. G. Venkataswamy



LAICO Faculty Dr. Premarajan presenting a memento to Alok Perti



Mr. R.D. Thulasiraj and Mr. Kasi Viswanathan, District Collector, Madurai

convention proved to be very useful to the DBCS members as there was exchange of information through discussions and up-to-date information was given through the scientific sessions, symposiums and Free paper presentations. Exhibits displaying information regarding blindness statistics at state, national and international levels were very informative to the participants.

Sir John Wilson and Lady Wilson at Aravind



Dr. G. Venkataswamy with Sir John Wilson



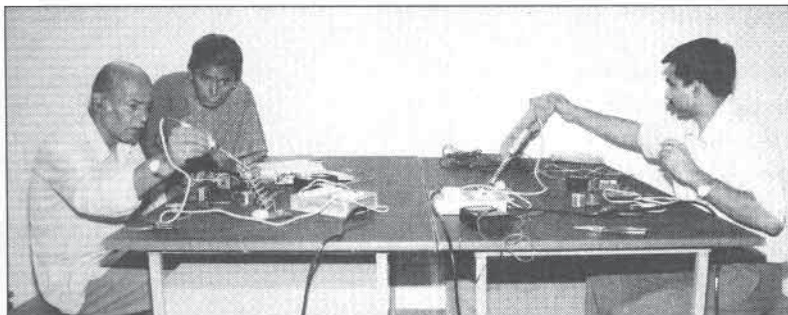
Sir John and Lady Wilson with Aravind senior staff



Dr. G. Natchiar garlanding Lady Wilson

Sir John Wilson has been a strong inspiration and a guiding light for about three decades to Dr. Venkataswamy and the Aravind staff in their efforts against blindness. November 96 marked Sir John Wilson and Lady Wilson's first visit to Aravind since its establishment. The relationship began in 1968 when Dr. Venkataswamy, as the chief of the ophthalmology department at the Madurai Government Hospital, started conducting free eye camps with support from the Royal Commonwealth Society for the Blind (RCSB). Sir John Wilson, as the president of RCSB, donated a Jeep and other needed equipment for the mobile eye camps. Sir John Wilson addressed the staff in small groups on their role in the global fight against blindness. It was a memorable occasion for the Aravind family.

Instruments Maintenance Training Course



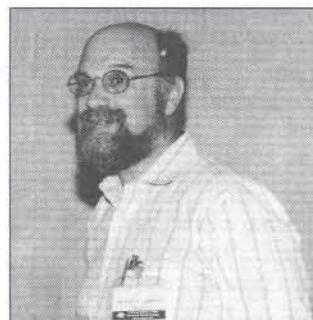
On-the-job training

Maintenance of equipment and instruments is an integral function of any activity that involves their use in a significant way. Maintenance management is a well evolved discipline and is highly recognised in the industry. In ophthalmology there has been tremendous innovations and technological growth. However, the benefit of all this technology can reach the patient only if the instruments are in good working condition. For this reason, Aravind established a separate department to maintain instruments and equipment more than ten years ago. Over the past few years the demand from other hospitals to receive such training for their staff has increased. Prof. Srinivasan, head of the engineering division, developed a six week training programme. The training centre was inaugurated on the first of October by Mr. G. Srinivasan. The first training programme began on the same day with participants from eye hospitals in Raipur, New Delhi and Bangalore. The training programme consists of didactic lectures, demonstrations and on-the-job-training.

Sixth Annual Meeting of the Glaucoma Society of India



Dr. Ramakrishnan



Dr. Marc F. Lieberman



Dr. Krishnadas



Dr. L. Vijaya

(Sponsored by Humphrey Instruments, USA)
5th & 6th October

Dr. N.N. Sood

- Magnitude of glaucoma blindness in third world

Current Concepts: Primary angle closure glaucoma - India scenario

Dr. Alan L. Robin

- Cost benefits of glaucoma management
- Update on medical management of glaucoma

Dr. Ramanjit Sihota

- Current concepts in pathogenesis of glaucomatous optic neuropathy
- Diagnosis of angle closure glaucoma

Dr. J.C. Das

- Risk factors in glaucoma
- Diagnostics in glaucoma

Dr. Andrew Braganza

- Psychophysical function in glaucoma
- Lens induced glaucoma

Dr. G. Chandrasekar

- Clinical assessment of optic nerve head and NFL in glaucoma

Dr. Sumit Choudry

- Evaluation of anterior chamber angle and its significance in glaucoma

Dr. Marc F. Lieberman

- Newer diagnostic techniques in glaucoma (CLSO, UBM, etc.)
- Basic principles of automated perimetry
- Interpretations of automated perimetry
- Perimetry update
- Management of failed filters

Dr. B.S. Goel

- Role of perfusion pressure at optic nerve head in glaucoma

Dr. Ravi Thomas

- Common testing errors and problems in automated perimetry
- Practical aspects of glaucoma in Hi-tech world

Dr. Mayuri Kammer

- Normal tension glaucoma - Clinical evaluation and management

Dr. V. Velayudham

- Ocular hypertension

Dr. Vasudev Anand Rao

- Pseudoexfoliation glaucoma and pigmentary glaucoma

Dr. L. Vijaya

- Surgery vs. medical management in glaucoma

Dr. R. Krishnadas

- Modulation of wound healing in glaucoma filtering surgery

Dr. Anil K. Mandal

- The challenge of childhood glaucoma -



Dr. P. Namperumalsamy at the inauguration

Emphasis on early detection, management, visual rehabilitation and quality of life

Dr. R. Ramakrishnan

- Management of co-existent glaucoma and cataract

Dr. B. Sridhar Rao

- Role of glaucoma drainage devices of refractory glaucoma

Dr. H.C. Agarwal

- Update on cyclodestructive procedures

Dr. Shantha, Dr. H.C. Agarwal,

Dr. Abhijit

- Management of complicated glaucoma: Case presentations

Free Papers and Video

Dr. P.A. Siddiqui, Dr. K. Dubey,

Dr. A.K. Mukherjee

- Therapeutic evaluation of different topical anti-glaucoma drugs in various phases of primary open angle glaucoma

Dr. Y. Sujatha, Dr. Ramakrishnan

- Glaucoma in orbital inflammatory diseases

Dr. V.A. Rao

- Response of pseudoexfoliation glaucoma to argon laser trabeculoplasty: A preliminary study

Dr. Aby Jacob, Dr. Shobha Navsen, Dr.

Prashanth Singh, Dr. J.P. Muliylil

- Ocular biometric parameters in an urban South Indian population

Dr. Pandav

- Trabeculectomy with releasable sutures: Short term results

Dr. Swapan K. Samanta, Dr. P.N. Biswas, Dr.

M.M. Mandal, Dr. I.S. Roy

- A preliminary baseline report of the prevalence of glaucoma in the biggest district of India

Dr. Aby Jacob, Dr. Ravi Thomas,

Dr. Andrew Braganza, Dr. Subir Sen,

Dr. Saju Thomas, Dr. Padma Paul

Dr. Aby Jacob, Dr. Ravi Thomas,
Dr. Andrew Braganza, Dr. Subir Sen,
Dr. Saju Thomas, Dr. Padma Paul

- *The value of an isolated examination*

Dr. Aby Jacob, Dr. Shaji P. Koshi,
Dr. Ravi Thomas, Dr. J.P. Muliyl,
Dr. Atual Mishra

- *Mitomycin C in trabeculectomy*

Dr. Sujatha, Dr. R. Ramakrishnan,
Dr. R. Krishnadas, Dr. Alan L. Robin,
Mr. Manohar

- *Prevalence of glaucoma in South Tamil Nadu*
- *The Aravind Comprehensive Eye Survey*
(ACES): A Preliminary Report

Dr. R. Ramakrishnan, Dr. R. Krishnadas,
Dr. Alan L. Robin

- *Dose response evaluation of Mitomycin C in*
primary trabeculectomy

Other courses held at Aravind

Course on Basic Uveitis & Neuro- Ophthalmology

20th & 21st January

Guest Faculty

Dr. Robert A. Nozik, Proctor Foundation,
USA

- *Naming meshing technique*

- *Clinical history*

- *Physical examination*

Dr. George Hilton, University of California,
USA

- *Role of vitrectomy in posterior uveitis*

Dr. J. Biswas, Sankara Nethralaya, Madras

- *Immunosuppressives in uveitis*

Dr. Rajeev, L.V. Prasad Eye Institute,
Hyderabad

- *Modern trends in investigation of uveitis and*
biopsy in uveitis

Dr. Cunningham, Proctor Foundation, San
Francisco, USA

- *Tubercular uveitis*

Dr. Robert A. Nozik, Dr. J. Biswas, Dr.
Rajeev, Dr. Rathinam Sivakumar,
Dr. Deborah Dean

Panel discussion:- Uveitis pattern in India

Dr. Jeyakumar, Madurai

- *Ocular motility and interpretations*

Dr. Mani, Madurai

- *CT scan demonstrations in various neuro-*
ophthalmic problems.

Aravind Faculty

Dr. G. Natchiar

- *General field defects relating to neuro-*
ophthalmology

Dr. Rathinam Sivakumar

- *Leprosy uveitis*

Dr. Meena Chakrabarti

- *Pars planitis*

Dr. Subburam, Dr. Y. Sujatha

- *Proptosis of neuro-ophthalmology*

Dr. Subburam

- *Pseudotumour cerebri*

Dr. R.D. Ravindran

- *Pathogenesis of papilloedema: Recent*
concepts

Second CME Programme

5th to 11th August

The trainees belonging to the batches trained in calendar year 1995 and other senior alumni were invited to the programme. Its purpose was to serve as a refresher and update course on all facets of IOL surgery as well as a follow-up on the progress made by the candidates since completing the course

Statistics - 1996



In the end people are the catalyst for progress, as excellence comes only with the creativity and expertise of a caring and committed staff.

Aravind Children's Hospital

Total Out-patients	18302
Under 5 years children (New)	1625
In-patients	11
Camps	14
Cases seen in camps	842
Adult cases seen	748
Antenatal cases visit	53
Immunisations	1922

		Aravind Madurai	Aravind Tirunelveli	Aravind Theni	Total
Outpatient visits-	Paying	246,296	74,223	27,236	347,775
	Free	317,319	113,898	31,997	463,214
Surgery -	Paying	31,138	6,221	1,304	38,663
	Free	52,410	13,169	3,570	69,149
Hospital outpatient visits-		403,052	127,134	41,479	571,665
Eye camp outpatient visits		160,563	61,007	17,754	239,324
Total outpatient visits		563,615	188,141	59,233	810,989
Screening camps		580	261	84	925

Surgery Details

Cataract & other lens removal procedure	19,299	3,691	1,513	24,503
IOL Implantation	48,083	12,117	2,943	63,143
Trabeculectomy	1,059	133	21	1,213
Retinal Detachment	714	41	0	755
Vitreous surgery	696	11	0	707
Membranectomy	98	3	2	103
Squint Correction	490	66	0	556
Keratoplasty & Therapeutic Graft	213	0	2	215
Pterygium	345	174	49	568
Laser & Xenon Photocoagulation	3,284	968	0	4,252
Nd. Yag Iridectomy	1,472	154	3	1,629
Nd. Yag Capsulectomy	2,781	553	13	3,347
Argon Laser Trabeculoplasty	10	17	-	27
Lacrimal surgeries	2,435	1,017	238	3,690
Orbit & Oculoplasty Surgeries	1,166	208	42	1,416
Others	1,403	237	48	1,688
Total	83,548	19,390	4,874	107,815



Community Outreach Programmes

Aravind Eye Camps and other outreach activities offer the means to the rural community and especially the poor to quality eye surgery and other clinical services at no cost. Aravind works in partnership with local community leaders and service groups. In 1996, 927 eye camps were held, in which 2,40,000 out-patients were examined and surgery was performed for 36,346 patients.

Free eye camps -1996

Organisations	Camps	O.P.	Cat+IOL	Others	Total
Lions Clubs	404	1,20,839	18,141	457	18,598
Rotary Clubs	24	10,129	1,822	25	1,847
Vivekananda Kendra	59	10,059	1,068	66	1,134
Bhagavan Sathya Sai Seva Orgn.	59	14,421	2,419	96	2,515
Religious Organisations	50	14,144	1,975	49	2,024
Jaycees	5	793	119	3	122
Banks	18	3,992	398	8	406
Mills & Factories	28	11,825	2,064	80	2,144
ASSEFA	6	628	61	1	62
Schools and Colleges	20	2,323	188	6	194
Hospitals	92	11,757	1,321	69	1,390
Trusts	19	7,728	1,480	27	1,507
Youth and Fans Association	28	4,173	464	24	488
Other Vol. Service Organisation	70	14,181	2,307	34	2,341
Others	45	13,008	1,527	47	1,574
Total	927	2,40,000	35,354	992	36,346



Educational Programmes

1996 Batch

Diploma in Ophthalmology (DO)

Dr. Radhika
Dr. Sivasakthi
Dr. Nirupama
Dr. Venkatesh
Dr. Sonia Modi
Dr. Neerja L. Bisht

MS in Ophthalmology

Dr. S. Aravind
Dr. Rajesh Gupta

Diplomate of the National Board (Dip.N.B.):

Dr. Latha

Fellow of the Royal Collage of Ophthalmologists, London (FRCOph)

Dr. Sathish Srinivasan
Dr. Ravikiran Gandhewar

Residents from the following institutes came to Aravind in 1996:

St. Vincents Hospital, New York, USA

Dr. Mark Hornfeld
Dr. John Lane
Dr. Adam Katz
Dr. Anthony Curreri

Mass. Eye & Ear Inf. Boston, USA

Dr. Jill A. Smith
Dr. Emil Chynn
Dr. Magdalena Krzystolik
Dr. Robert Bhistrikul
Dr. Susannah Rowe

cont . . .

As a postgraduate institute, Aravind plays a leading role in the teaching of ophthalmology and related services.

Postgraduate Training for Ophthalmologists

- Diploma in Ophthalmology (DO): Course started in 1982
- MS in Ophthalmology: Course started in 1986
- Diplomate of the National Board (Dip.NB.): Course started in 1981
- Fellow of the Royal Collage of Ophthalmologists, London (FRCOph)
Royal College of Ophthalmologists: Course started in 1995

Apart from these regular courses offered in affiliation with Dr. M.G.R. Medical University- Madras and Madurai Kamaraj University, there are various other short-term training programmes as follows:

1. Eighteen month fellowship programmes in various subspecialities of ophthalmology for M.S. or Dip. NB. degree holders.
2. One year senior general ophthalmology fellowship for M.S. or Dip. NB. degree holders. One year junior general ophthalmology fellowship for D.O. passed candidates.
3. Eight week Intensive Intraocular Lens (IOL) training programme. Under this programme, 288 ophthalmologists have received training.
4. Four week Intensive Indirect Ophthalmoscopy training programme. Started in 1994, so far 114 ophthalmologists have undergone this training.
5. Four month course to train selected faculty members as trainers in IOL surgery.
6. Seminars & Workshops: Several times a year the hospital arranges short courses, seminars, workshops and clinical/surgical demonstrations with faculty from India and abroad.

Ophthalmology residents from various university hospitals in the US and some European countries come to Aravind-Madurai and Aravind-Tirunelveli for additional training as part of their residency programme.

Ophthalmic Nurses Training

The efficiency of Aravind's ophthalmic nurses contributes significantly to the hospital's low costs and high quality. Twice a year, high school graduates are recruited and given training in basic and ophthalmic nursing. Aravind now has over 310 ophthalmic assistants and technicians.

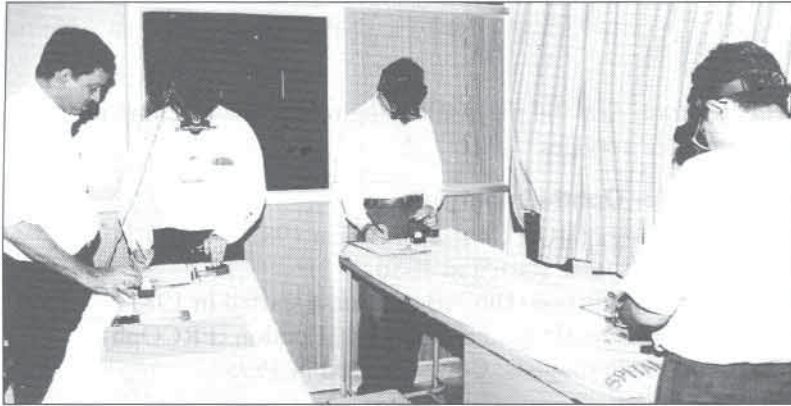
Other than training nurses for Aravind Eye Hospitals, nurses from other states and developing countries come to Aravind for further training. In 1996, Ms. N.G. Ekuma and Mr. Joseph U Magani from National Eye Centre, Kaduna were trained here.

Nursing Curriculum Development

The Aravind nursing training programme, which started in 1978 with 12 candidates, has over 350 nurses at present. The training programme is considered an excellent one and there is a demand to develop a physical structure for the programme with a detailed curriculum for other institutions to start similar programmes. In 1996, Ms. Maria Mangini and Ms. Susan Spinola from USA came to Aravind to work on the curriculum and to teach our nursing staff new techniques to improve their skills.



Class for Postgraduate students at Aravind-Tirunelveli



Dr. Kim with the Indirect Ophthalmoscopy trainees



Mr. Ganesh Babu and Mr. Selvaraj with Ms. Kathy Welch at the University of Michigan, USA

cont . . .

**University of Illinois,
Chicago, USA**

Dr. John Moy
Dr. Dan Taglia
Dr. Greg Nelson
Dr. Ashok Penmatcha, MD
Dr. Charles Ahn
Dr. Sao Liu

Wilmer Eye Institute, USA

Dr. Laura L. Harris

**Univ. of Wisconsin,
Madison, USA**

Dr. V. Vinod Mootha
Dr. Patricia Cosgrove

GBMC, Baltimore, USA

Dr. Andrew L. Martin,
Chief Resident
Dr. Donald Falgoust
Dr. Sanjay Goel

**Wills Eye Hospital,
Philadelphia, USA**

Dr. Kenneth R. Jaegers

Sinai Hospital, USA

Dr. Eric Leuine

Germany

Dr. Med Christoph
Kullenberg

**Lubeck Univ. Eye Hospi-
tal, Germany**

Dr. Gerd Geerling

**Universitätsklinikum Carl
Gustav Carus, Germany**

Dr. Amer Kamouna



Dr. Banu, Dr. Krishnadas and Dr. Prajna at the AAO meeting at Chicago

Ms. Marianne Mottier from USA was at Aravind to offer training for nurses and refractionists.

Ms. Gisela Rademaker from Saudi Arabia was here to conduct training for Aravind orthoptists.

Training in Housekeeping:

Aravind housekeeping staff, through their relentless vigil have set an example to other hospitals. Apart from housekeeping, they also run the coffee shop, the nurse's kitchen and the doctor's canteen. Like the nurses, the housekeepers are trained on the job. At present, Aravind has over 60 housekeepers.

Speciality Training

Dr. Narendran, Dr. Kim, Dr. Kalpana and Dr. Usha visited several eye hospitals in USA & UK. Their main focus was management training. They attended the workshop on coaching and training skills conducted by Allied Dunbar at Swindon, UK and clinical training at Wilmer Eye Institute,

Baltimore and Wills Eye Hospital, Philadelphia in their respective specialties. Dr. Narendran and Dr. Kalpana attended the Physician Management course conducted by Kaiser Permanente at San Francisco.

Dr. Usha, in charge of Aravind nursing training programme visited several nursing programmes in the US to gain knowledge for the ophthalmic assistant programme that Aravind will soon offer in collaboration with the Madurai Kamaraj University. She visited the University of Florida, Gainesville and JCAHPO at Minnesota. Dr. Kim visited the Mayo clinic at Rochester.

Dr. N. Venkatesh Prajna and Dr. Krishnadas attended the Centenary American Academy of ophthalmology meeting at Chicago. Dr. Prajna also visited Allergan laboratories at Irvine, California to discuss on future collaborative research work. Mr. Thulasiraj, Dr. Prajna, Mr. Selvaraj and Mr. Ganesh Babu met with the rest of the MIOLS team at the National Eye Institute, Washington for the final data analysis of Madurai IOL Study. Mr. Selvaraj and Mr. Ganesh Babu attended courses in Biostatistics and Epidemiology at Johns Hopkins University, Baltimore, and a course on statistical analysis systems at University of Michigan.

Ongoing Research

Formed in 1984, the Aravind Medical Research Foundation conducts research projects that reflect Aravind's commitment to finding new ways to reduce the burden of needless blindness. The large volume of patients and varied disease patterns that are commonly seen at Aravind along with the modern data management and analysis facilities available here provide excellent research opportunities.

Some of the research studies under progress are:

- Aravind Comprehensive Eye Survey
- Antioxidant Study: Cataract Grading
- Childhood Cataract Studies
- Glaucoma Management under Indian Conditions

Apart from the above, several other hospital based clinical research works are undertaken in each of the speciality clinics.

Retina & Vitreous clinic

- Ocular manifestations of HIV/AIDS in South Indian Patients: Unawareness or Underestimation?
- Management of non-dilating pupil during vitreoretinal surgery
- Atypical presentations of Retinoblastoma in older children
- Management of retinal detachment in paediatric age group
- Management of dislocated lenses
- Fovea sparing grid treatment for advanced age related macular degeneration
- Electrophysiological testing to assess visual prognosis in traumatised eyes
- ERG in eyes with siderosis bulbi
- ERG in vitrectomized eyes where perfluorocarbon liquid has been used
- Fluorosilicone oil for old rhegmatogenous retinal detachment
 - A prospective study
- Retinal detachment in eyes with transsclerally sutured PCIOLs
- A Retrospective study on retinal detachment in children
- Acute multifocal inner retinitis - Report of eight cases
- Diabetic papillopathy - Clinical angiography study-Does it occur in type 1 diabetics only?
- Non-arteritic AIDS - clinical profile and angiographic characteristics
- Acute, non-ischemic optic disc oedema in diabetes mellitus
 - Expanding spectrum
- Acute posterior multifocal placoid pigmentary epitheliopathy (APMPPE)
 - Characteristics and differential diagnosis
- Prospective study on efficacy of laser treatment vs natural course of central serous retinopathy with bullous RD
- Study on pattern of vasculitis in a referral centre - A prospective study

Proposed Projects

- Genetics studies in Indian patients with autosomal recessive retinitis pigmentosa; Addendum to the diagnosis, pathogenesis & treatment of gyrate atrophy of the choroid and retina in collaboration with NEI, Bethesda.
- Use of human lens material for determining possible causes of cataract in collaboration with NEI, Bethesda.

Uvea clinic

1. PCR Assay of aqueous humour of clinically diagnosed ocular tuberculosis - Case control study in collaboration with ICMR and Madurai Kamaraj University
2. In collaboration with Proctor Foundation, USA, Uveitis survey in South Indian patients have been started.

Paediatric Ophthalmology clinic

Seeing 2000 : Aravind comprehensive childhood eyecare services projects: This project is funded by International Eye Foundation and the duration of the project is two years.

The Main Objectives of the Study are:

- To increase by 25% the number of children receiving needed surgery for treatable eye diseases through implementing an active publicity campaign in our outreach programmes.
- To increase at least by 50% the number of children under six years undergoing eye examination by screening preschool children attending kindergarden schools and Integrated child development services scheme.
- To train ophthalmologists and ophthalmic nurses in paediatric ophthalmology.
- To expand the staffing and infrastructure at the paediatric ophthalmology clinic to meet the expected increase in the clinical and surgical load.

The actual study started in September. In the initial month, personnel were selected and given training in the required area.

Currently maximum efforts are made to motivate parents to bring their children to camps and base hospital through banners, pamphlets, posters and radio. Children who come under Integrated Child Development Services scheme (ICDS) are being screened for ocular problems. So far 1,500 children have been screened.

Cornea Clinic

- Comparison of the drugs ofloxacin and ciprofloxacin in the treatment of bacterial ulcers.
- Pilot study on antifungal drugs in collaboration with ICEH, London.

Conferences/Courses/ Workshops Attended by Aravind Staff

International Conference on small free living amoebae

Adelaide, January 7th to 11th
Dr. M. Srinivasan
- *Acanthamoeba Keratitis in India*

Symposium on uveitis

Hyderabad, 23rd & 24th January
Dr. Rathinam Sivakumar
- *Investigation in uveitis*
- *Leptospirosis*
- *Systemic approach in uveitis*

Erode Ophthalmology Society

Erode 28th January
Dr. Rathinam Sivakumar
- *Systemic approach in uveitis*
- *Investigations in uveitis*

All India Ophthalmological Society Conference

Chandigarh 1st - 6th February
Pre-Conference Sessions
1 & 2nd February
VRS Annual Meeting
Dr. P. Namperumalsamy
- *PFC liquid*
Dr. Meena Chakrabarti
Debate: 'Management of dislocated lens or IOL', 'Removal of dislocated lenses followed by scleral fixation of a secondary PC or IOL'
- *Management of dislocated lenses in 35 patients analysing the results and complications*

Proximity Course

Dr. P. Namperumalsamy
- *Vitreous surgery for giant retinal tears*

FORCE Symposia

Instruction Course on "Posterior Segment Disorders in Cataract Surgery"

Dr. P. Namperumalsamy
- *Postoperative Endophthalmitis*

Dr. G. Natchiar
- *Anterior segment consideration to minimise posterior segment complications*

Dr. Meena Chakrabarti
- *Management of dislocated cataract (nucleus/IOL)*
- *Pseudophakic Retinal Detachment*

Dr. Arup Chakrabarti
- *Postop. CME and retinal phototoxicity*
- *Post. segment consideration for IOL surgery in diabetic retinopathy, post. uveitis, post. segment trauma, post. RD/Vitreotomy*

Symposia

Vitreo retinal surgery

Dr. P. Namperumalsamy
- *Management of giant retinal tear*
- *Endophthalmitis and Vitrectomy*

Current concepts in diagnostic techniques and management in optic nerve disorders

Convenor: Dr. G. Natchiar
- *Early diagnosis and management of Traumatic optic neuropathies*

Dry eye: Diagnosis and management

Convenor: Dr. M. Srinivasan

Corneal ulcers: Its management

Faculty: Dr. M. Srinivasan
- *Diagnosis and management of peripheral noninfective corneal ulcers*

Intractable Glaucoma Newer Techniques

Faculty: Dr. R. Ramakrishnan
- *Setons in Glaucoma*

Instruction courses

Management of simple retinal detachment

Instructor: Dr. P. Namperumalsamy
Dr. P. Namperumalsamy
- *History of scleral buckling and goals of surgery*
- *Retinal drawing: Detection of retinal break (Pre & Per-op.)*

Dr. Meena Chakrabarti
- *Predisposing lesions and prophylaxis of simple retinal detachment*

Dr. Kim

- *Common complications and management*

Intractable Glaucomas

Dr. R. Ramakrishnan
- *Setons in glaucoma*
- *Apraclonidine in glaucoma*
- *Role of glaucoma drainage devices*

Intraocular foreign bodies

Faculty: Dr. Arup Chakrabarti
- *Experience of managing cataracts associated with ferrous foreign bodies*

Suppurative keratitis

Faculty: Dr. M. Srinivasan

Strabismus

Faculty: Dr. P. Vijayalakshmi
- *Congenital esotropia*

Free Paper Sessions

Dr. R.D. Ravindran
- *Argon laser posterior hyaloidotomy in the management of subhyaloid haemorrhage*

Dr. Arup Chakrabarti

- *Construction of sutureless tunnel incision with razor blade*
- *Ab-externo 2 point scleral fixation of PC IOLs - Long term results*

Dr. Dinesh K. Sahu
- *Acute multifocal inner retinitis: Report of 8 cases*

Dr. R. Kumarasamy
- *Surgical correction of malpositioned and decentered IOLs*

Dr. R. Krishnadas
- *Surgical outcome of combined trabeculotomy with trabeculectomy in congenital glaucomas*

Dr. Y. Sujatha
- *Spherical implantation after evisceration*
- *Medical canthopexy for centurion syndrome*

Dr. H.L. Bisht
- *Bilateral optic neuritis - Clinical profile, course and prognosis*

Dr. Sonia Modi
- *Overlap of ocular manifestations in lepromatous and tuberculoid leprosy*

Current Concept Programme & Newer Techniques

Dr. G. Natchiar
- *Consolidation and management of traumatic optic neuropathies*

Dr. R.D. Ravindran
- *Recent diagnostic technique and management of papilloedema*

Dr. R. Ramakrishnan
- *Glaucoma: Newer surgical techniques*

Dr. Y. Sujatha
- *Surgical management of optic nerve disorders*

Intraocular Lens Implant Society Meeting

Dr. G. Natchiar
- *Cataract Blindness & IOL Implantation in India: Where do we stand?*

Oculoplastic Association of India (OPAI) VII Annual conference

Dr. Y. Sujatha
- *Orbital inflammatory disorders - thyroid orbitopathy vs pseudotumor*
- *Ectropion of an orbital socket*
- *Lagophthalmos correction by scleral grafting*

Scientific Exhibits and Posters

Dr. R.D. Ravindran
- *Bietti's crystalline tapetoretinal dystrophy*

Dr. Meena Chakrabarti
- *Choroidal osteoma in 2 patients: A case report*

Dr. Y. Sujatha
- *Exenteration for orbital haemangiopericytoma*
- *Eosinophilic granuloma of orbit: a case report*

- *Orbital aspergillosis with an intracranial extension*
- *Lacrimal gland fistula*

Videos

Dr. P. Namperumalsamy: Chairman:
General Films (Part I)

Dr. R. Ramakrishnan
- *Combined trabeculotomy and trabeculectomy in management of glaucomas*

Dr. R.D. Ravindran
- *Argon laser posterior hyaloidotomy in the management of subhyaloid haemorrhage*
- *Subretinal adult nematode*
- *Management of malpositioned and decentered IOLs*

Dr. Arup Chakrabarti
- *A New 4 point scleral fixation technique to minimise suture erosion and IOL tilt*
- *Sutureless non-phaco small incision IOL surgery - A technique for everybody*

Dr. Rathinam Sivakumar
- *Ocular leptospirosis*

Dr. Y. Sujatha
- *Eyelid reconstruction technique in lepromatous leprosy patients*
- *Cosmetic tarsorrhaphy*

Workshop on Curriculum Development for training in Community Ophthalmology

International Centre for Eye Health (ICEH), London, UK
29th February to 2nd March

Dr. G. Natchiar
- *Community eye care training*

Vitreo Retinal Symposium - 1996

Organised by vitreo-retinal Society of India and Karnataka ophthalmological society
Bangalore, 6 & 7th April

Dr. P. Namperumalsamy
- *Complications of silicone oil & perfluorocarbon liquid*
- *Eale's disease - diagnosis, medical & laser treatment*
- *Vitreotomy for Eale's disease and other vascular occlusions*

Delhi Ophthalmological Society Annual Conference - "Ophthalmology-2000"

New Delhi, 13th & 14th April

Dr. Y. Sujatha
- *Orbital manifestations of AIDS*
- *Recent advances in the orbital implants and socket reconstruction*
- *Ear cartilage grafting for connecting lagophthalmos*



Dr. Chandrakanth at the Low vision eye care workshop in Madrid



Dr. Paulraj at the Institute of Child Health, London

National Workshop on Drainage Implants in Glaucoma

(Organised by Ministry of Health)
New Delhi 15th & 16th April

Dr. R. Ramakrishnan
- *Trabeculectomy -its success rate, limitation, complication & future*

Regional Workshop on Review of National Programmes for the Prevention of Blindness

Delhi, 30th April to 3rd May
Dr. G. Natchiar

- *Visual fields defects in and around optic chiasma*

World Congress on the Cornea

Orlando, Florida 17th to 19th April
Dr. M. Srinivasan

- *Intra operative mitomycin in pterygium surgery*
- *Medical and surgical management of Fungal keratitis*

CME Programme on Diabetes

Meenakshi Mission Hospital, Madurai
2nd May

Dr. P. Namperumalsamy
- *Ophthalmic Manifestations due to Diabetes Mellitus*

Fourth Annual Conference of Bombay Ophthalmological Association

1st & 2nd, June
Dr. M. Srinivasan
Guest faculty: *Infective Keratitis*

MGM Medical College

Indore on 21st - 22nd June.
Dr. G. Natchiar
- *Visual Field Defects in and around Optic Chiasma*

Workshop on 'Low Vision Eye Care'

Madrid, Spain; 4th to 7th July
Sponsored by the WHO
Dr. Chandrakanth attended the above workshop where representatives from all the continents discussed and formulated a comprehensive low vision eye care programme.

International Conference on Low Vision Eye Care

Madrid, Spain; 8th to 12th July
Dr. Chandrakanth participated in seminars and scientific sessions in this conference.

Course on The Breast Feeding Practice and Policy

Institute of Child Health, London, July
Dr. Paulraj, from Aravind Children's Hospital was sponsored by 'IMPACT' UK to attend this course. Thirty five delegates from 25 countries participated.

Dr. Paulraj
- *The Breastfeeding Practices of the Lower Socio-economic Group*

44th Annual Meeting of the Tamil Nadu Ophthalmic Association

Salem, 2nd to 4th August
Dr. M. Srinivasan
- *Diseases of Cornea*
Dr. R. Ramesh
- *Low vision therapy for visually handicapped - A Hospital Based survey in 147 cases*

Dr. Meena Chakrabarti
- *Management of dislocated Lenses*
- *Management of Retained IRFB*

Symposium on Diabetic Retinopathy
- *Proliferative Diabetic Retinopathy*

Dr. Y. Sujatha
- *Isolated Orbital Lymphomas*
- *Bullet foreign body orbits (Poster)*
- *Centurion Syndrome (Poster)*
- *Modified cosmetic Tarsorrhaphy*

Third Retina Congress

Hyderabad, 24th to 25th August

Dr. P. Namperumalsamy

- *Posterior and anterior PVR Surgery*
- *SRF- Drainage- Rational and techniques and indications for non-drainage*

Dr. Meena Chakrabarti

- *Traumatic optic nerve -Associated with Posterior Retinal Dialysis*

International Conference on Advances in Ophthalmology

Eye Advance 1996

Indian Academy of Ophthalmology, Bombay, 21st - 22nd September

Dr. P. Namperumalsamy: Delivered keynote address on Perfluorocarbon liquids - Indian context

- *Surgical treatment of epiretinal membrane*
- *Diffuse unilateral neuroretinitis*

Minto Hospital, Bangalore, September

Dr. P. Vijayalakshmi

Guest Lecture

- *Control of ocular movements*
- *Congenital Esotropia*
- *Duane's Syndrome*

Indian Academy of Ophthalmology meeting

Mumbai, 21st September

Dr. G. Natchiar

- *Management efficiency in quality eye care delivery*
- *Phaco - Its role in large volume surgery*

National symposium on Vitreo - Retinal update

Nagpur, 28th - 29th September

Dr. P. Namperumalsamy

Guest faculty

- *Aetiopathogenesis of Eales disease*
- *PFC liquid and PVR surgery*

Chairman for Symposium on Retinal Detachment

VIII Oculoplastic Association of India (OPAI) meeting

Lucknow, September

Dr. Y. Sujatha

- *MEDPOR orbital implants*
- *RHICON tubes for CDCR surgery*
- *WIES procedure for Senile entropion*

Eye Bank Association Meet

Hyderabad, 1st to 3rd October

Dr. M. Srinivasan

- *Sclero Cornea and Pellucid Marginal Degeneration*

Seventh biennial conference of the strabismological society of India

Madras, 18th to 19th October

Dr. P. Vijayalakshmi

- *Posterior fixation and adjustable suture surgery*

24th Annual Conference of the Research Society for the Study of Diabetes in India (RSSDI)

Mysore, 1st to 3rd November

Dr. P. Namperumalsamy

- *Current State of the art Management of Diabetic Retinopathy*

Centenary Meeting of the American Academy of Ophthalmology

Chicago, 20th to 25th November

Dr. N. Venkatesh Prajna & Dr. Krishnadas

Dr. Prajna

- *Overview of the Aravind model*

South Regional Ophthalmic Conference

Mangalore, 22nd to 24th November

Dr. P. Vijayalakshmi

Guest lecture on : *Syndrome in ocular motility*

Free paper presentations

Dr. V. Narendran

- *Management of dislocated IOLS and follow up study.*

Dr. Dinesh K Sahu

- *Geographical helicoid peripapillary Choroidopathy (GHPC)*
- *Central serous retinopathy with subretinal exudation and bullous RD*
- *Acquired Ocular toxoplasmosis - Epidemiology.*

Instruction Course Paediatric Ophthalmology and Strabismus

Dr. P. Vijayalakshmi

- *Cataracts in children and their management*
- *Intraocular lens implantation in children*
- *Video demonstration on various surgical procedure for congenital cataract, glaucoma, ptosis etc.*
- *Extraocular muscles and its action - Video demonstration*
- *Accommodative esotropia*

Dr. Kalpana

- *Congenital glaucoma - Investigations and Management*
- *Examination of a case of strabismus*

Dr. Ramakrishnan

- *Congenital Glaucomas*

Dr. R. Ramesh

- *Differential diagnosis of Retinoblastoma*
- *Management of exotropia*

Dr. Kumar Hariharan

- *Management of congenital dacryostenosis and ptosis*
- *Discussion and video demonstration of*

different surgical procedures including - Recess and resect technique, Adjustable sutures, Hang back recession, Inferior oblique myectomy and Superior oblique muscles surgery.

Dr. Gisela Rademaker

- *Investigation and management of a case of amblyopia*

Dr. Motlier

- *Congenital esotropia*

Andhra Pradesh Ophthalmology Society Meeting

30th November, Hyderabad

Dr. M. Srinivasan,

Dr. Rustom Ranji Gold medal oration

- *Ocular nocordiosis*

Dr. Rathinam Sivakumar

- *Leptospirosis in Madurai, Intermediate uveitis, Lab. investigations in uveitis*

Publications

Journal of Tamil Nadu Ophthalmic Association

Vol. XXXIV No.1 March 1996

Dr. Krishnadas, Dr. Abhijit Tagare,

Dr. R. Ramakrishnan

- *Newer Therapy in Glaucoma*

Dr. R. Ramesh, Dr. P. Vijayalakshmi

- *Use of Low Vision Aids for Visually Impaired Children in Integrated Schools*

Vol. XXXIV No.2 June 1996

Dr. Krishnadas, Dr. Abhijit Tagare,

Dr. Ramakrishnan

- *Combined Phacoemulsification with Trabeculectomy in Advanced Glaucomas*

Dr. Abhijit Tagare, Dr. Krishnadas,

Dr. Ramakrishnan

- *Metastatic Carcinoma of Iris Causing Secondary Angle Closure Glaucoma - A Case Report*

Dr. R. Ramesh, Dr. P. Vijayalakshmi,

Dr. G. Natchiar, Dr. P. Subburam

- *Brows's Syndrome with Craniopharyngioma: A Rare Case Report*

Vol. XXXIV No.3 September 1996

Dr. Dinesh K Sahu

- *Diabetic Papillopathy: A Clinical Challenge*

Dr. Manjula, Dr. Dinesh K Sahu,

Dr. P. Namperumalsamy

- *Choroidal Metastasis - A Case Report*

Dr. Y. Sujatha, Dr. R. Krishnadas,

Dr. R. Ramakrishnan, Dr. P. Namperumalsamy

Eye Banking

Salem, Tamil Nadu

Dr. M. Srinivasan

Current Concepts - Symposium

International Conference on Biomedical Engineering

Coimbatore Institute of Technology

12th to 14th December

Dr. P. Balakrishnan, Prof. V. Srinivasan

and Mr. A. Perumal attended the conference

Prof. V. Srinivasan presented a paper on

- *Biomedical Engineering Department at Aravind Eye Hospital*

23rd Annual Conference of Kerala State Ophthalmology Society

Little Flower Hospital Angamaly, Kerala.

28th and 29th December

Dr. P. Namperumalsamy

Symposium on Endophthalmitis

- *Endophthalmitis in pseudophakia*

- *When to perform vitrectomy*

- *Orbital Cysticercosis with Secondary Glaucoma - A Case report*

Vol. XXXIV No.4 December 1996

Dr. R. Ramesh, Dr. P. Vijayalakshmi

- *Congenital Esotropia*

Dr. R. Ramakrishnan

- *Management of Co-Existing Glaucoma and Cataract*

Dr. Ramakrishnan, Dr. R. Krishnadas

- *Wound Healing in Glaucoma Filtering Surgery*

Indian Journal of Ophthalmology

Vol.44 No.1 March 1996

Dr. Sathish Srinivasan, Dr. N. Venkatesh

Prajna, Dr. M. Srinivasan

- *Pyogenic Granuloma of Cornea: A Case Report*

Dr. M. Srinivasan, Dr. Arup Chakrabarti,

Dr. Meena Chakrabarti

- *Expulsive Haemorrhage in a Case of Thrombocytopenic Purpura*

Vol.44 No.3 September 1996

Dr. N. Venkatesh Prajna, Dr. R.

Ramakrishnan, Dr. Krishnadas, Mr. N. Manoharan

- *Lens Induced Glaucomas - Visual Results and Risk Factors for Final Acuity*

Gramarajyam

Vol. 51, Jan 1996

Dr. Lakshmi Rahmathullah, Dr. Paulraj

- *Supplementary Feeding*

- *Water-borne Diseases*

- *Malaria*

Lions Aravind Institute of Community Ophthalmology (LAICO) Activities

Capacity Building for Eye Hospitals

Management for Eye Care Delivery Workshop

25th February to 1st March



Dr. G. Venkataswamy distributing certificates to the participants

The purpose of the five day course was to enhance the skills and capabilities of managers of eye care programmes and institutions for effective eye care delivery. Thirty seven participants from India, Nepal, Bangladesh and Sri Lanka attended the workshop. Mr. Saravanan, as the course manager co-ordinated all the course related activities.

The faculty included eminent management experts such as Dr. Leon B. Ellwein, Dr. Fred Munson, Prof. Hanumantha Rao, Dr. Balasubramanian, Dr. Sushila Rao, Dr. Nirmala Murthy and LAICO faculty

Mr. R.D. Thulasiraj, Dr. Prema-rajan and Dr. Suzanne Gilbert.

Management Development Programme

This programme is designed to help eye hospitals strengthen their capacity to offer effective and sustainable eye care programmes. In the first stage, LAICO faculty performs a needs-assessment visit to the selected hospitals. Then a respective team of the hospital's staff comprised of the chairman, the administrator, the chief ophthalmologist and the senior paramedical staff visited Aravind for a week of vision building and strategy planning sessions. Finally, LAICO faculty offer follow-up support and review progress as the hospitals seek to put their plans into action.

Courses, Workshops Conducted by the Institute

Workshop to Develop Consultancy Skills

18th -20th March

Ms. Linda Perry and Mr. John Bickell from Allied Dunbar, U.K. conducted a two day workshop to equip the LAICO staff with better consultancy skills. It was also attended by Mr. D. Nagarajan, Regional Director, Sight Savers, Dr. Rajkumar, Programme Officer, DANPCB and Mr. Joseph Paneerselvam, CEDAR.

The Fifth Management Development Workshop for Lions Eye Hospitals

The workshop was organised from 8th to 14th February. Three hospital teams from Sadhuram Eye Hospital, Hyderabad Ram Reddy Lions Eye Hospital, Mahbubnagar and Chintamani Lions Eye Hospital in Kolar district attended the

workshop. The workshop was aimed at practical exposure to different dimensions of eye care delivery and capacity building for the hospitals.

Orientation Training Programme for District Programme Managers under NPCB

17th-26th June

Lions Aravind Institute of Community Ophthalmology conducted a training in community ophthalmology for the District Programme Managers. This was organised jointly by DANPCB, the Government of India and LAICO.

Training in Community Ophthalmology

In 1996, the training was given to five teams.

I- 25-27th July

II - 22-24th August

III - 29-31st August

IV - 12-14th September

V- 5-7th November

Lions Aravind Institute of Community Ophthalmology organised three day training in Community Ophthalmology for the District Health officers and Civil Surgeons from Maharashtra. The main focus of training was high volume cataract surgery, base hospital approach and social marketing.

Consultancy Visits by the LAICO Team

Under LAICO-Allied Dunbar-SightSavers project which focuses on improving the managerial capacity and building up the capacity of select eye hospitals in order to deliver better accessible, available and affordable eye care to the community. As part of the entire project, the LAICO team conducted consultancy visit to these hospitals:

- i) Needs Assessment Visit - For new hospitals which are included in the project.
- ii) Follow-up Visit - For those hospitals that have attended the vision building workshop.

The Needs Assessment visit is conducted at the beginning of the project. The main objective of the visit is to have first hand information on the functioning of different departments and to identify the training needs of the hospital.

The team from LAICO constituting of Mr.Thulasiraj, Dr. Dipankar Dutta, Dr. Manjul Menon and Mr. Balu conducted needs assessment of Rotary Service Centre, Purulia on 15th August.

The team from LAICO consisting of Dr.Shamanna, Dr. Kim, Mr. Saravanan and

Mr.Ganesh Babu conducted needs assessment of C.M.Rajgharia Memorial Rotary Eye Hospital, Giridih on 7th August and Pujya Tapaswi Sri Jagjeevanjee Maharaj Chakchu Chikitsalaya, Petarbar, Bihar on 6th August.

Dr.K.C.Premarajan and Dr.Prajna conducted needs assessment visit of Rotary Eye hospital, Vyurru, Andra Pradesh on 20th August.

A Follow-up visit after the vision building workshop was carried out for those hospitals which partici-



Orientation Training Programme for District Programme Managers

pated in the vision building workshop to review the status of implementation of various changes and of strategies developed. The follow-up visit further finds solutions to the problems faced by the hospital and to identifies their training needs.

The team from LAICO consisting of Mr.Thulasiraj, Dr. Dipankar Dutta, Dr. Manjul Menon and Mr. Balu conducted a follow-up visit of Sri BijoyKrishna Ashram Relief Society, Ramachandrapur and Vivekananda Mission Ashram, Chaitanyapur on 16th & 17th August.

The team from LAICO consisting of Dr. Shamanna, Dr. Kim, Mr. Saravanan and Mr. Ganesh Babu conducted a follow-up visit of J.P.M. Rotary Memorial Hospital, Cuttack.

Vision Building Workshop

This vision building workshop was organised, as a part of Allied Dunbar - Sight Savers - LAICO project, from 14th - 21st November. This workshop aims at developing selected eye hospitals into centres of efficient and sustainable eye care programmes. Three hospital teams from Giridih, Peterbar and Vyurru participated in the workshop. Apart from the LAICO staff, the other faculty were Sir John Wilson, Director of IMPACT, UK; Lady Wilson; Ms.Linda Perry, Programme Manager and Ms.Dawn Lieghfield Consultant from Allied Dunbar, UK; Mr.D. Nagarajan, Regional Director and Mr.B.D. Thanawala, Director, Sight Savers International, Bombay.

Standardisation of Clinical and Hospital Management

This workshop was organised, as a part of the Allied Dunbar - Sight Savers - LAICO project, from 2nd - 5th December. Three hospital teams from Sri BijoyKrishna Ashram Relief Society, Ramachandrapur, Vivekananda Mission Ashram, Chaitanyapur and J.P.M. Rotary Memorial Hospital, Cuttack participated in the workshop. The aim of the workshop was to standardise the systems and procedures of clinical and administrative areas for these hospitals. Apart from the LAICO staff the other faculty were Mr.D.Nagarajan, Regional Director and Mr.B.D.Thanawala, Director, Sight Savers International.

Short term training offered by the Institute

Mr.Hiralal Dhami, Outreach Coordinator, Lumbini Eye Hospital, Nepal underwent training in Community Ophthalmology from 8th July to 29th August. The main focus of his training included organising and management of eye camps, community participation and social marketing.



Vision Building Workshop

Shri.Himkant Adhikari, Administrator Lumbini Eye Hospital, Nepal underwent training in eye hospital management.

Six persons from Sri Bijoy Krishna Ashram Relief Society, Purulia underwent training from 23rd September to 5th October. Mr.N.S. Chakraborty for overall administration of the eye hospital, Mr.N.S.Chakraborti for stores, purchase and vehicle management, Mr.M.K.Chakraborti for organising and managing camps, Mr.P.K.Mondal, in finance and accounting management as well as two ophthalmic assistants Mrs. Jayanthi Chakraborty and Mrs. Reba Chakraborty, in the operation theatre and Outpatient management.

Skills Development Courses

The skills development courses offered now are
IOL Microsurgery course
Indirect ophthalmology course
Training of trainers course
Training in community outreach work
Training in equipment and instrument maintenance

Doctors who undertook WHO Fellowship Programme in 1996

Dr. Bharati Sharmh Puzari
and Dr. A.K. Sinha from
Assam
Dr. Sheela Baskar and Dr.
Sumitra Devi from
Trivandram
Dr. Herlia Furtado Tele,
Goa
Dr. Radha Nair, Alapuzha
Dr. Yaranguppi
Dr. Ratha, Dr. Girija Devi,
Dr. T.G. Rema, Trichur
Dr. Ashit Baran Debroy
Dr. Ranjit Singh, Ranchi

WHO Fellowship Programme

Under the WHO intra-country fellowship programme a total of 18 candidates received training specific to their needs in 1996.

Other Projects

Cataract Blindness Prevalence and Service Outcomes study: Mr. Thulasiraj, Administrator, LAICO sponsored by the NEI, participated in the protocol development at Chinese Academy of Medical Sciences and Peking Union Medical College in August.

Meetings Attended by the Institute Faculty

Mr. Thulasiraj, Administrator, LAICO visited Singapore National Eye Centre, in August to discuss about developing of eye centres specially for prevention of blindness.

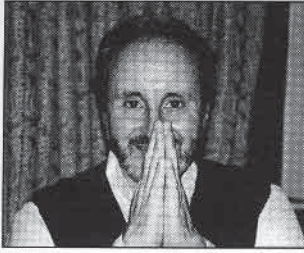
The World Health Organisation at Geneva convened a meeting on “**Informal Consultation on Strategic Planning for Global Initiatives in Blindness Prevention**” from 16th-18th July in which Mr. Thulasiraj participated. The trends and future projections, a 20 year strategic plan for blindness control as well as a global strategic plan for blindness prevention were some of the issues discussed.

Dr. Venkataswamy participated in a workshop on “**Coordination in Blindness Control**” organised by the National Programme for Control of Blindness Directorate General of Health Services at New Delhi from 16th to 18th September. Issues on setting up the National Eye Care Resource centre and setting up of cost recovery mechanisms in Government Health Institutions were discussed.

Mr.S. Saravanan, Jr. Faculty, LAICO attended a five day workshop on ‘Managerial Skills’ conducted by the RUSHA Department, CMC&H, Vellore from 23rd to 27th September.

Volunteers in Staff Development

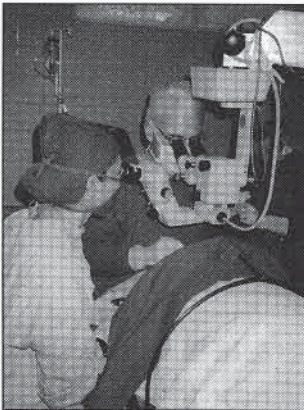
Aravind is grateful to the following who contributed to the staff development by working with them and contributing to structured training programmes:



Dr. William Stewart



*Dr. Fred Munson with
Dr. G. Venkataswamy*



Dr. Steve Miller

From Allied Dunbar Assurance Inc.

- Ms. Dawn Leighfield came to LAICO to design, develop and test a model for an operation manual with a format that will be used to document, process and standards that are applied within the hospital. She also provided some input and support to the vision building workshop.
- Mr. Colin Williams, Practice Consultant, had extensive discussions with the LAICO staff about the management and role of change as consultants for eye hospitals sanctioned under the project.
- Ms. Linda Perry, Programme Manager visited LAICO to discuss the various ways of broadening the relationship between Aravind and Allied Dunbar.
- Mr. Tim Arrowsmith, Consultant conducted a workshop on performance appraisal for the LAICO staff. Dr. Manjul Menon worked with Mr. Tim to develop a system for development appraisal for Aravind staff, a induction and orientation programme for new employees, a method of selection and a recruitment as part of human resource development.

Seva Volunteers

- Mr. Peter Rae conducted refraction classes for nurses. Being an architect he designed the floor plans for the general practitioner's office, the new camp office and the Aurolab office.
- Mrs. Marlene Stern conducted a week long intensive team building workshop for all the staff of Aravind-Coimbatore.
- Mrs. Susan Stewart volunteered in working with Sr. Aleese and Sr. Radha Bai to introducing new ways of team building sessions for the nurses.
- Mr. Steve Paine, Orbis, USA was at Aravind for eight weeks to co-produce video films on Aravind-genesis and on Sight Savers. He also taught new video production techniques to Aravind staff.
- Ms. Shalini Pahuja, Wilmer Institute, USA was at Aravind to restructure internship training programme for the Masters in Hospital Management (MHM) trainees.
- Ms. Gillian Wilson, USA explored the attitude of Aravind Ophthalmologists towards group practice. She also worked on the Medical Record Systems and publicity material for private practice.
- Dr. William Stewart, from Pacific Med Centre conducted live surgical demonstrations of common oculoplastic surgeries. He also delivered lectures on Hospital Management to Aravind Staff.
- Dr. Steve Miller, Physician Manager, Kaiser Permanente, USA was at Aravind and LAICO to conduct sessions with staff on problem solving methods and Total Quality Management. He also drew up a list of courses for a physician management course module.
- Tom Wilmore from Austin, USA helped Aravind to access to the Internet. He worked with the Aravind computer staff in networking the computers at LAICO with those at Aravind.
- Ms. Abby Hershler, Seva Service Society, Canada volunteered in the Aravind Communications Department. She assisted in developing a brochure for Aurolab and an information booklet about the hospital. She also assisted the Aravind audio-visual staff in the production of a number of short videos.
- Mr. George Lamb, Seva Volunteer from California, USA trained the Aravind publication staff in editing publications.



*Dr. Bjorn Thylefors with
Dr. Venkataswamy*

- Mr. David Skinner, Seva volunteer, USA came to Aravind to develop a training programme for lay social workers
- Mr. Eric Ederer, Librarian USA
- Ms. Karen Crocker, Volunteer from USA was assisted in compiling, editing and preparing the LAICO brochure
- Mr. Gary Hahn, Ms. Kathy Claffey, USA
- Mr. Peter Esty, USA

For Research

In view of the existing diverse classification systems for cataract, WHO is conducting a series of field trials on a simple, yet comprehensive new classification system. Dr. Thylefors, Director, Programme for Prevention of Blindness and Deafness, WHO, Geneva came to Aravind in March and conducted a five day feasibility study on Indian population.

- Mr. David Fine, from John Hopkins University, USA came to conduct an ocular trauma study in the cornea clinic.
- Dr. Astrid Fletcher and Ms. Martine Donoghue from School of Public Health, London
- Dr. Jim Tielsch, John Hopkins University, USA



*Dr. Tamara C Suslow and
Dr. Paul Suslow from
Vision International Eye
Missions, USA*

Other Volunteers and Visitors

- Dr. Keiki Mehta, Bombay
- Mr. Todd Ellwein, USA, was here primarily to work on the 20 year report on Aravind eye hospitals. He also assisted in developing an evaluation form for the nurses.
- Mr. David Green and Mr. Rolf Spingler, USA were at Aurolab to discuss the suture needle project.
- Ms. Claudia Koeing, South Asia Regional Representative, Christoffel Blindness Mission and Dr. Allen Foster, Consultant, Christoffel Blindness Mission from International Eye Health, UK to explore the possibility LAICO collaboration for their new CBM projects supported by German Lions in India.
- Ms. Ruth Baldwin, Canada was at Aravind & Aurolab for CIDA project evaluation
- Ms. Elizabeth Taylor, WHO, Switzerland
- Mr. Kanval Vaid, Bombay
- Mr. Joshi & Mr. Shambhu Paswan, Nepal
- Mr. Pandurengan, Commonwealth secretariat, UK
- Mr. Mahmood, Farazdaghi, IFEB, USA
- Dr. Carlo Carlevale, Italy
- Dr. Gokarna Dhakal, Nepal
- Ms. Lalith Dandona, L.V. Prasad Institute, Hyderabad
- Dr. Robert Abel, Delaware Ophthalmology Consultants USA
- Mrs. & Mr. Frederick N. Griffith IFEB, USA
- Mr. Richard Fuller, President, TBI, USA
- Dr. A. Roman, Graemiger, Switzerland
- Dr. Wibisono Wijono
- Prof. J.H.A. Mandang
- Dr. Oelfah Harmanto, Indonesia

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Administrator: R. D. Thulasiraj MBA

Project Director: Dr. C. A. K. Shanmugham B.S.Sc,D.E (Prague)

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Dr. Jaison MS

Dr. Sumita Agarkar MS

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Chief: Dr. M. Srinivasan MS

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Dr. K. K. Choudhry MS

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Aravind-Theni

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Dr. Nagaraja DO
Dr. Kesavan DO

Aravind Children's Hospital- Madurai

Director:

Dr. Lakshmi Rahmathullah
DPH

Medical Officer:

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Aravind Eye Hospital

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World Health Organization
Collaborating Centre
For Prevention of Blindness

Aravind-Madurai Aurolab

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