

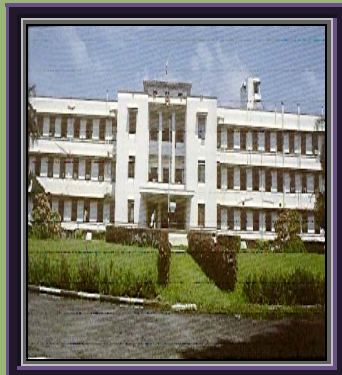
Issue 16
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CLRI News Letter

Quarterly: July – September 2011



CSIR, Foundation Day - 26th September 2011



Central Leather Research Institute in keeping with the tradition celebrated the CSIR Foundation Day at Triple Helix Auditorium on 26 September 2011. Council of Scientific and Industrial Research (CSIR) which was founded on this day in 1942, with the prime objective of catering to the S&T needs for the industrial development of the country has emerged over a period of 69 years as a vibrant mammoth scientific and industrial organization with wide ranging competence, core strength and many more achievements with a focus on scientific and industrial research.

The event was marked by participation of both industry and academia. Dr. G Bhaskaran, FNA, Senior Professor, Institute of Mathematical Sciences, Chennai and Distinguished Research Chair, Premier Institute of Theoretical Physics, Waterloo, Canada was the Chief Guest and delivered the Foundation Day Lecture on 'Science as a Ladder'. Dr. Balakrishna V Bhosale, Member of Senate and Associate Professor, University Department of Sociology, Mumbai and Shri Mohan M Sreenivas, Managing Director, Mohan Sreenivas & Associates, Chennai and a leading manufacturer and exporter of Leather Garments were the guests of honour.

Mr. D Chandramouli, Chief Scientist and Head, IDLS-PIU & Economics Research Division, CLRI, in his brief welcome address highlighted some of the major achievements of CLRI. He said that during the year 2010-11, eleven more patent applications had been filed and 27 consultancy projects had been undertaken. He proudly said, on the area of pollution-free tanning, the Institute has successfully transferred know-how relating to pickle-free chrome tanning to Vaniyambadi Tanners Enviro Control Systems Pvt. Ltd., Vaniyambadi, where the new technology has been successfully implemented. He said CSIR-CLRI has already forged a close relationship with the Government of Ethiopia in connection with the development as well as capacity building for the Ethiopian Leather Sector. The Twinning Programme for capacitating Leather Industry Development Institute (LIDI), Ethiopia under the leadership of CSIR-CLRI has been launched officially on 19 September, 2011 in Addis Ababa, Ethiopia.

Dr. G Thyagarajan, FNAE, FRSC former Director, CSIR-CLRI, in his presidential address, spoke about the genesis of CSIR and stressed the significance of celebrating the Foundation Day of an organization. He fondly remembered the great visionaries Pandit Jawaharlal Nehru, Dr. A L Ramaswamy Mudaliar and Shri Shanti Swarup Bhatnagar who were responsible for the establishment of CSIR. Dr. Thyagarajan mooted out a new idea of starting entrepreneurial universities that can impart education on economy, environmental issues, trade related subjects like marketing, management, development of skill etc. He wished a new paradigm of human resource development through this initiative which would reinforce linkage between academia and industry.

Dr. Balakrishna V Bhosle in his address said, 93% of the working class is in unorganized sector. He requested the Scientific Research Institutions to bridge the gap between science and community by closely interacting with the artisans.

Mr. Mohan Sreenivas, representing the industry through AISTHMA in his address thanked CLRI for its pivotal role in developing the leather industry through appropriate technologies, manpower training etc. He said it is regretted to note that in India, not much of money is being spent for R&D, whereas in other countries like Israel 4% of country's GDP is allocated for Research & Development. He said a very small amount of only US\$ 315mn is spent in CSIR for R&D.

Mr. Mohan Sreenivas requested the government and the industry to come forward and invest more funds for the Research & Development. Dr. M.K. Gowthaman, Senior Principal Scientist proposed the Vote of Thanks.

As a part of the celebration, Drawing & Essay competitions for wards of CLRI, Science Seminar for young research scholars, Cricket Tournament & Quiz Programme for CLRI staff were conducted and prizes and certificates were awarded to the winners during the celebration. This day was also celebrated as Open Day. Many students from schools and colleges visited the institute to familiarize themselves with various ongoing R&D activities and facilities of CLRI, which enabled them to update their knowledge in the realm of Science and Technology

Entrepreneurial Universities that familiarize candidates with aspects of the Economy, Environmental Issues, Trade, Marketing and Management are the need of the hour in India.

Dr. G. Thyagarajan, Former Director, CLRI.



Ambur Open 2



**Inauguration of
CLAD
Renovated Building
29.08.2011**



CSIR-CLRI in association with Indian Shoe Federation (ISF) presented "An Autumn in Ambur"- A Trend Presentation on MODEUROP Colours, Leathers & Textures for Autumn Winter 12/13 season at the Ambur Trade Centre on 9 July 2011 on the occasion of Ambur OPEN 2. The trend presentation was coupled with the release of MODITALIA Colours & Textures and the release of the official MODEUROP Colour Card for Autumn Winter 12/13 season. The Seminar was presided by Prof. Dr. A.B. Mandal, Director, CSIR-CLRI. Shri PV GopalaKrishna Bachi, President, ISF and Shri K Srinivasan, Convenor, Finished Leather Panel were the Guests of Honour. Speaking on the occasion, Prof. Dr.A.B. Mandal, Director, CSIR-CLRI emphasized that the recipe for progress for India was to make its presence felt in the foreyards of the leather trade and it was imperative that it be in the vanguard of deciding fashion colours and textures that are followed globally. Prof. Dr. A. B. Mandal then released the MODITALIA Trends for the Autumn Winter 2012/13 season, the Official MODEUROP Colour Card for the Autumn Winter 2012/13 season and the CD Version of "An Autumn in Ambur" presentations. The RELEASES were received jointly by the Guests of Honour Shri P V Gopalakrishna Bachi, President, ISF and Shri K Srinivasan, Convenor, Finished Leather Panel, CLE. Dr. B.N. Das, Mr. Gautham Gopalkrishna and Mr. Md. Sadiq, Senior Principal Scientists of CSIR-CLRI participated in the presentation. The CSIR-CLRI pavilion at Ambur Open 2 focused on HRD programmes of CSIR-CLRI, Testing Services at CSIR-CLRI Physical & Chemical Testing Labs, Leads on Wealth from Waste, Parchment like Leather & Leather Board, Environment Technologies & other CSIR-CLRI know-how's.

Tendencies in Colours



Prof Dr AB Mandal, Director, CSIR-CLRI released the tendencies in 'COLOURS' for the MODEUROP Colour Club Meeting for the Spring Summer 2013 season to Shri PV Gopalakrishna Bachi, President, Indian Shoe Federation (ISF) & to Shri SV Kumar, Vice President, ISF on 25 August 2011 on the occasion of the EC Meeting of ISF.

Patents Filed

- ❖ " A novel compound for pharmaceutical applications and a process for the preparation thereof" has been filed on 18 May 2011 (CSIR Ref.No.0061NF2011)
- ❖ " A novel esterase and a process for preparation thereof" has been filed on 10 June 2011 (CSIR Ref.No.0052NF2011)
- ❖ " A novel alkaline protease for industrial applications and a process for the preparation thereof " has been filed on 14 June 2011 (CSIR Ref.No.0053NF2011)
- ❖ " A process for the preparation of bioorganic manure from proteinaceous solid wastes" has been filed on 11 August 2011 (CSIR Ref.No.0095NF2011)
- ❖ " A Process For The Preparation Of Bioorganic Manure From Proteinaceous Solid Waste" has been filed on 11 August 2011 (CSIR Ref.No.0095NF2011)





Awards



Dr. B. Madhan, Senior Scientist, CHORD, CLRI, has been selected for Indian National Academy of Engineering (INAE) Young Scientist Award 2011



CSIR has recognized and honored CSIR-CLRI with the prestigious "CSIR Technology Award for Innovation-2011" for developing a breakthrough "Salt free Tanning Technology" by the team comprising Mr. V. JohnSundar, Mr. T.Rangasamy, Dr. C. Muralidharan & Prof.Dr.A.B.Mandal and implementing this technology in select tanneries of Tamil Nadu. The award was presented by Honorable Shri Vilasrao Deshmukh, Minister of Science & Technology and Earth Sciences in the presence of Honorable Shri Ashwani Kumar, Minister of State for Science & Technology and Planning on 26 September 2011 during CSIR Foundation Day function held at New Delhi.

IILF, New Delhi

ITPO has been organizing India International Leather Fair (IILF) in Chennai for the last 26 years with great success. The brand IILF is very well established and recognized by the trade & industry not only in India but in overseas market also. A large number of companies are participating in the show regularly. The foot fall of overseas trade visitors was very encouraging for the last edition of IILF, held in Chennai. On the request of industry and the space constraint at Chennai, it has been decided by the ITPO to make the event bi-annual. The seeds for India International Leather Fair were sown and nurtured at CSIR-CLRI before ITPO was entrusted with its care. CSIR-CLRI has been partnering with ITPO since then. It was but apt for ITPO, CSIR-CLRI and the Indian Leather Sector to join hands and „showcase“ a "Trends & Technology Pavilion" to the Global Leather Fraternity during 28-30 July 2011 for the 1st edition of India International Leather Fair in Hall 18, Pragati Maidan, New Delhi. ITPO & CSIR-CLRI endeavors to walk hand in hand with the Indian Leather Sector in the journey of making IILF-New Delhi, a meaningful exposition for the discerning. The fair was inaugurated by Dr. Rahul Khullar, Secretary, Department of Commerce, Government of India. There were 100 exhibitors including 17 from overseas mainly from Italy and China. A Theme Pavilion titled "Technology and Trends Showcase" was set up jointly by Central Leather Research Institute (CSIR-CLRI) and India Trade Promotion Organization (ITPO) wherein the best of Indian Merchandise and Future Trends in Colour, Style and Designs were exhibited. Prof. Dr. A.B. Mandal, Director, CLRI interacted with the Chief Guest and conducted the VIP Team around the various displays at the "Trends & Technology Showcase". CSIR-CLRI brought out a News Letter titled "New Orientation" on this occasion.





ORIENTATION PROGRAMME

An orientation programme has been conducted by CSIR-CLRI for the benefit of newly recruited / joined Scientific staff of the Institute during 5-15 September 2011

Seminars

- Prof. Emilio Aicart, Professor, Coloidal & Supramolecular Chemistry Lab, Department of Physical Chemistry, University of Complutense, Spain delivered a seminar on "Cationic Lipids as non-viral compacting agents of DNA" at CLRI on 1.7.2011.
- Dr. Girish Kale, Reader, Solid State Ionics, Scholl of Process Environmental and Materials Engineering, University of Leeds, United Kingdom delivered a seminar on "Chemical And Biological Sensors" on 26.07.2011 at CLRI.
- Prof. Jean-Marie Tarascon, High Merit Professor of Chemistry, University of Picardie, "Jules Verne" in Amiens, France delivered a seminar on "Stakes and Challenges of Electrochemical Storage towards Sustainable Energy" on 11.08.2011 at CLRI.

RCED, Kolkata

Experts from CLRI-RCED, Kolkata visited the training centres of WEBCON located at Shantiniketan & Surul and submitted the evaluation report under National Monitoring Unit Programme conducted by CSIR-CLRI

ILTA

CSIR-CLRI participated in the India Leather Technologists Association's (ILTA) Diamond Jubilee Valedictory Programme held on 13.08.2011 at Kolkata and 61st Foundation Day Celebration of ILTA held on 14.08.2011 at Kolkata. Mr. Arnab Jha, President, ILTA welcomed the gathering of the valedictory programme and Mr. Susantha Mallick, General Secretary, ILTA presented the annual report of ILTA. Prof. Dr. A.B. Mandal, Director, CLRI gave a special address on this occasion. He recalled the many instances where CLRI and ILTA had worked hand-in-hand which contributed to the growth of the Indian Leather Industry. He recalled the contributions of Prof. Dr.B.M. Das, who was a pioneer and also Father of Leather Technology in India. He said that Dr.B.M. Das was instrumental in the formation of CLRI in the year 1948. The chief guest Dr. Rabirajan Chattopadhyay, Hon'ble Minister In-Charge, Technical Education & Training, Science & Technology and Bio-Technology, Govt. of West Bengal gave a special address and congratulated ILTA on its Diamond Jubilee. The Minister highlighted the employment potential of the Indian Leather Industry and said that it currently employed 2.7 million people mostly belonging to the weaker sections of the society and women. There were technical presentations by staff of CSIR-CLRI on this occasion. Dr. B.N. Das, Senior Principal Scientist, CSIR-CLRI made a presentation on "The journey of Footwear Design form Traditional to Modern" and Mr. Md. Sadiq, Principal Scientist, CSIR-CLRI made a presentation on "Journey, Innovation". Dr. Balachandra Unni Nair, Chief Scientist, CLRI delivered the Prof. B.M. Das Memorial Lecture on the 61st Foundation Day Celebration of ILTA on the theme "Mineral Tanning: Chromium and Alternatives". Mr. Susantha Mallick, General Secretary, ILTA proposed the vote of thanks.



IULTCS

CLRI team comprising of Dr. AB Mandal, Dr. B Chandrasekaran, Dr. J Raghava Rao, Dr. Swarna V Kanth, Dr. KJ Sreeram, Dr. N Nishad Fatima, Dr. B Madhan, Dr. P Thanikaivelan, Ms. P Latha, Ms. Malathy Jawahar, Mr. M Shanmugavel, Mr. U Mani, Mr. R Ramesh visited Valencia to attend XXXI IULTCS Congress organized by the Spanish Chemical Association of Leather Industry (AQEIQ) during 27-30 September, 2011. The theme of the Congress was to discover the new breakthroughs to meet the challenges and technological competitions for global environmental protection in order to make the leather sector sustainable. CLRI has made many successful contributions in this area and is still pursuing many more initiatives. 4 Oral presentations as well as 17 Poster Presentations of research papers were made by CLRI. The CLRI team is of the opinion that the three days of congress has brought an opportunity in exchanging latest information on scientific achievements in leather sector to promote cooperation and development in the world leather scientific and technology field, leading to a more satisfactory vision of the future of leather sector.





Retirements on Superannuation

31.08.2011
Dr. A. Garg
 Chief Scientist
 Group IV(6)

Voluntary Retirement

15.09.2011
Dr. V. Sridhar
 Principal Scientist
 Group IV(4)



The Twinning Programme

The Twinning Programme, capacitating Leather Industry Development Institute (LIDI), Ethiopia under the leadership of CSIR-CLRI was officially launched on 19th September 2011



Hindi Fortnight Celebrations

The Hindi Fortnight Celebration 2011 was organized at CLRI from 14.09.2011 to 19.09.2011 by Hindi Section. Various competitions in Hindi language like Noting and Drafting, Stenography, Antyakshri, Typing etc. were held for the staff of CLRI during the celebration. Prof. Dr. A.B. Mandal, Director, CLRI distributed the prizes for the winners of the above competitions.



Training Programmes: July – September 2011

Name of the Training Programme	Month of Commencement & Duration	No. of Trainees
Diploma Programme in Leather Processing	July 2011 - 1 Year	19
Certificate Programme in Leather Processing	July 2011 - 1 Year	6
Diploma Programme in Leather Goods	July 2011 - 1 Year	1
Diploma Programme in Leather Footwear	July 2011 - 1 Year	13
Certificate Programme in Leather Footwear	July 2011 - 1 Year	2
Pattern Designing for leather Garments	July 2011 - 6 Weeks	2
Training Programme in Leather Goods Manufacture Sponsored by Gujarat Rural Industries Marketing Corporation Ltd. (GRIMCO) under Poverty Alleviation Scheme	August 2011 - 4 Weeks	20
Training Programme in Leather Goods Design	August 2011 - 8 Weeks	2
Training Programme in (Computer Aided Design) CAD for Garments	August 2011 - 8 Weeks	2
Training Programme in Leather Goods Manufacture	September 2011 - 4 Weeks	11
Executive Training Programme in Shoe Designing & CAD Pattern Engineering	August 2011 - 3 Weeks	3
Executive Training Programme in Leather Garments Manufacture for students of National Institute of Fashion Technology	July 2011 - 4 Weeks	2
Executive Training Programme in Identification of Finished Leathers for staff of Office of the Commissioner of Customs, Custom House, Chennai	August 2011 - 1 Week	18

Ph.D. Public Viva -Voce

Name of the Researcher, Division & Supervisor Name	Title of Thesis	Name of the University	Date of Public Viva Voce
Mr. N. Venkatesh Dr. N. Vedaraman, Sr. Technical Officer (2), CLRI	Synthesis of Biosurfactants and their applications	University of Madras, Chennai	August 2011
Mr. J. Sunderaseelan Dr. T.P. Sastry, Principal Scientist, CLRI	Preparation, Characterization and evaluation of a novel bone implant containing nano hydroxapatite and demineralised bone matrix	University of Madras, Chennai	August 2011
Mr. S. Sekar Dr. T.P. Sastry, Principal Scientist, CLRI	Preparation and Characterization of value added products from Tannery Solid Waste (Chrome Shavings)	University of Madras, Chennai	September 2011

Chemistry in Societal and Environmental Needs

2011 being the International Year of Chemistry, Scientific academies and agencies notably UNESCO and Royal Society of Chemistry (UK) across the globe are commemorating the Decade of achievements and contributions of Chemistry in all of its total functional domains. CSIR-CLRI chose to have Chemicals as the major theme to celebrate as a part of the International Year of Chemistry through its active role of participation with Madras Science Foundation and Centre for International Cooperation in Science, Chennai and their Stakeholders in organizing a 3-day symposium entitled "Chemistry in Societal and Environmental Needs" during 29-31 August 2011 at Triple Helix Auditorium, CLRI, Chennai. The Inaugural Lecture was delivered by Dr.T.Ramasami, Secretary, Dept. of Science and Technology, Govt. of India. The symposium had 6 sessions on (i) Food, health and medicine(ii) Materials (iii) New energy options (iv) Greener and safer chemical processing (v) Environmental Monitoring (v) Chemistry in neighboring nations-Bangladesh, Nepal, Sri Lanka and scope for collaboration. Two panel discussions were held on stimulating innovations in chemical science and career choices in chemical sciences. The public lecture of Prof.D.Balasubramanian on "What is left in chemistry to discover or invent" and a special lecture delivered by Dr.G.Thyagarajan on "The furious face of chemistry-let us not provoke it" were very well received by the audience

The three day event came to an end after distribution of certificates of participation to the young delegates numbering 216.



New Projects undertaken: July – September 2011

Projects Undertaken	
Category	No.
Consultancy	7
Collaborative	1
Technology Transfer	2
Technical Services	3
TOTAL	13



Forthcoming Events

**MODEUROP
'showcase'
Spring Summer
2013 season
5.11.2011**

**CRSI –IYC 2011
Interaction
meeting with UG
& PG Chemistry
Students
25.11.2011**

**1241.4 miles: a
flavour of
Autumn Winter
12/ 13 season
5.12.2011**

The Institute has undertaken the following projects/services during the Quarter ending 30.09.2011

S.No.	Title & Project Leader	Beneficiary
Consultancy Projects		
1.	Risk Analysis Study Dr. P.T. Perumal	M/s. Chennai Petroleum Corporation Limited, Chennai
2.	Conducting HAZOP Study Dr.P.T. Perumal	M/s. Chennai Petroleum Corporation Limited, Chennai
3.	Expert Intervention towards capacity building of Leather Industry Development Institute(LIDI), Ethiopia Dr. B. Chandrasekaran	M/s. Leather Industry Development Institute, Ethiopia
4.	Consultancy on Metallic Foil Products for Leather Production Dr. Sanjeev Gupta	M/s. Max India Limited, Maxmet Division, Punjab
5.	Conducting Survey & Study of Jajmau, Kanpur Tanneries situated on the bank of Ganga for their relocation Dr. E. Ravindranath	M/s. Department of Urban Development, Government of Uttar Pradesh, Lucknow
6.	Providing additional facilities at Ambur Trade Centre Dr. E. Ravindranath	M/s. Council for Leather Exports, Chennai
7.	Evaluating and Identifying potentiality of two products and three formulations for hair growth Dr. A. Gnanamani	M/s. Gencor Pacific Organics Pvt. Ltd., Chennai
Collaborative Projects		
8.	Effective utilization of the protein hydrolysate, which is generated as a by-product during the extraction of amino acids from human hair Dr. P.K. Sehgal	M/s. Vijayam Biocytes Pvt. Ltd., Chennai
Technology Transfer		
9.	Know-How on "Process for manufacturing the Collagen Sheet & Reconstituted Collagen Sheet" Dr.P.K. Sehgal	M/s. Epicure Bio-med Pvt. Ltd., Andhra Pradesh
10.	Know-How for manufacturing Dog Chew from Tannery Wastes Dr.T.P. Sastry	M/s. Hi-Tech Company, Vellore, Tamil Nadu
Technical Services		
11.	Upscaling a product through Fermentation Dr. M.K. Gowthaman	M/s. G.G. Organics, Chennai
12.	Skill Development Programmes for model makers , designers & pattern makers Dr. Dipankar Chaudhuri	M/s. Entrepreneurship Development Institute of India, Kolkata
13.	Skill Development Programmes for model makers , designers & pattern makers involved in procurement Dr. Dipankar Chaudhuri	M/s. Entrepreneurship Development Institute of India, Kolkata

New Executive Committee for CLRI staff club for the year 2011-12

President (Ex-officio Post)	Prof. Dr A B Mandal, Director
Vice President (Ex-officio)	Shri C Manavazhagan, COA
Vice President	Shri G Shanmugasundaram, Principal Scientist
Secretary	Shri C Vijayakumar, PS
Treasurer	Smt. Meenakshi Moorthy, Sr. Steno
Executive Committee	
Executive Member (Gr IV)	Shri P S Suresh Kumar, Sr. Scientist
Executive Member (Gr III)	Dr. Giriyappa Kollannavar, Principal Technical Officer
Executive Member (Gr II)	Shri M Vasudevan, Sr. Tech(1)
Executive Member (Gr I)	Shri P Guruswamy, Lab Attent. (2)
Executive Member (Admn Gaz.)	Shri K P S Ganapathy, SO (S&P)
Executive Member (Admn Non Gaz)	Shri B Ravikumar, Sr. Steno
Executive Member (Lady)	Smt. Malathy Chandrababu, Asst Gr I

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Dr. A.B. Mandal, Director,
Central Leather Research Institute,
(Council of Scientific & Industrial Research)
Adyar, Chennai – 600020

Phone: 91-044-24910897 E-Mail: abmandal@clri.res.in

Compiled & Edited by

TEAM BPD (Business Processes Division), CLRI

Phone: 91-044-24915238 E-Mail: bpdclri@yahoo.com

