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दि लेदर पोस्ट
The Leather Post

सीएसआईआर-केन्द्रीय चर्म अनुसंधान संस्थान
CSIR-Central Leather Research Institute

84 CSIR Foundation Day Celebrations at CSIR-CLRI

Director's Message

Greetings and Namaskar to the Stakeholders of the leather sector

Dr K J Sreeram
Director, CSIR-CLRI

लेदर पोस्ट के प्रिय पाठको,
इस संस्थान की उल्लेखनीय वृद्धि वास्तव में दूरदर्शी औद्योगिक नेतृत्व का प्रमाण है। सीएसआईआर–सीएलआरआई में महत्वपूर्ण योगदान देने वाले एक असाधारण व्यक्ति श्री एमएम हाशिम हैं। हम 1 सितंबर को उनके जन्मदिन पर आयोजित विशेष स्मृति व्याख्यान के साथ उनकी विरासत का सम्मान करते हैं। इस वर्ष, जब हमने 84वां सीएसआईआर स्थापना दिवस मनाया, तो हमने भारत के विनिर्माण क्षेत्र को आगे बढ़ाने में संस्थान की महत्वपूर्ण भूमिका का प्रदर्शन किया। टीम भावना को ऊर्जावान बनाना, हमारे छात्रों के बीच नवीन सोच को बढ़ावा देना और गैर–चर्म के फुटवियर के लिए हमारे पायलट संयंत्र का अनावरण करना समारोह की मुख्य विशेषताएं थीं।
इन सभी प्रेरणादायक पहलों के साथ, मैं यह बताते हुए उत्साहित हूं कि द लेदर पोस्ट का यह सितंबर अंक एक अंतर्दृष्टिपूर्ण और मनोरंजक पठन होने का वादा करता है!
पढ़ने का आनंद लें!

The remarkable growth of this institute is truly a testament to visionary industrial leadership. One extraordinary figure who has significantly contributed to CSIR-CLRI is Shri MM Hashim. We honor his legacy with a special memorial lecture held on his birthday, September 1st. This year, as we celebrated the 84th CSIR Foundation Day, we showcased the institute's vital role in advancing India's manufacturing sector. Energizing team spirit, fostering innovative thinking among our students, and unveiling our pilot plant for non-leather footwear were standout features of the celebrations.

With all these inspiring initiatives, I am excited to share that this September issue of The Leather Post promises to be an insightful and enjoyable read!

Happy Reading!

No.	Description	Pg.
	Technologies	
1	Research in Focus : Publications	3
2	Publications from CSIR-CLRI	5
	Events	
3	Shanti Swarup Bhatnagar Memorial Tournament SSBMT-2025	5
4	84th CSIR Foundation Day Celebrations at CSIR-CLRI	6
5	Blood Donation Camp	9
6	Open Innovative Idea Competition (OI^{2}C) for School Students	10
7	Waste2Wealth (W2W) Mission Project	11
8	Birth Anniversary of Prof. Y.Nayudamma	12
	Institutional activities	
9	Executive Skill Development Program in Leather Goods Manufacture	13
10	Skill Development Program in Leather Processing	14
11	Non-Leather Footwear Pilot Plant at CSIR-CLRI	15
12	MM Hashim Memorial Lecture 2025	16
13	CSIR Open Day 2025	17
14	CSIR Open Day 2025 at CLRI Regional centres	19
15	Scientific Hindi Seminar	22
16	Event Participation	23
17	Visits	24
18	Swachhata Hi Seva	27
19	Activities at CLRI Regional Centre- Kolkata	28

"Replaceable Concepts" with "Irreplaceable Duo" in Leather Footwear

On investigating textile materials as replaceable internal linings in leather footwear, a team of researchers at CSIR-Central Leather Research Institute discovered that canvas fabric is the optimal choice due to its superior flexing properties, puncture resistance, and overall mechanical performance. This is in comparison with various other textile materials viz., cotton, denim, and terry cot. The above attempt looks at the leather footwear as a set of components, not just a composite assemblage. Such an outlook inherently brings in factors such as enhanced convenience, maintenance, and hygiene due to the enhanced washability associated with the fabric. Canvas fabric passed the tests viz., tensile/tear strength, water vapour permeability, abrasion resistance, puncture/impact resistance with flying colours! Canvas is simply a plain-woven material made from natural cotton, hemp, or linen. Modern versions incorporate synthetic fibers like polyester for added durability or water resistance. Known for its sturdiness, canvas is used variedly by the art and lifestyle sector.

Replaceable concept/innovation is a new sparkling in the sustainability sector covering the entire spectrum of our lives. It generally refers to both product and process innovations where components/steps are designed to be easily removed and substituted, often for repair, upgrade, or sustainability reasons. Modular designs in IT, electronics & automobile sectors, medical innovations such as replaceable heart valves are popular replaceable product innovations. USB-C ports, printer ink subscriptions, leased equipment in place of one-time selling, open source projects that can be built upon or substituted are modern examples of replaceable process innovations, owing to the underpinning process standardization by different vendors/service providers in the market.

The world's first known leather shoe dates back to 3500 BCE, and the oldest woven cloth fragments belong to 6000 BCE. Despite their ancientness, leather and textile have been the formidable duo in fashionocracy even today. Traditionally, textile linings in leather products are common due to cost and convenience factors, yet impose co-dependency. Due to the very obvious case of the textile lining getting damaged earlier always, the repair/maintenance gets cumbersome, and at times, the end-use of the entire leather product is to be jeopardized. That is when the replaceable concept/ innovation gains significance. This concept simply extends the life of the product and also enhances the wearer's experience. Such scenarios offset the threats from faux leathers and other leather-like materials, like collateral damage! Thus, this form of innovation is synonymous with principles of minimalism and circular economy, promoting sustainability by allowing specific parts to be serviced or upgraded rather than disposing of the entire product. Soon, the replaceable innovations/concepts will be irreplaceable in the realm of end-user experiences! Isn't it?

Selvaraj Mathivanan, Rames C Panda & Mahendra Bajirao

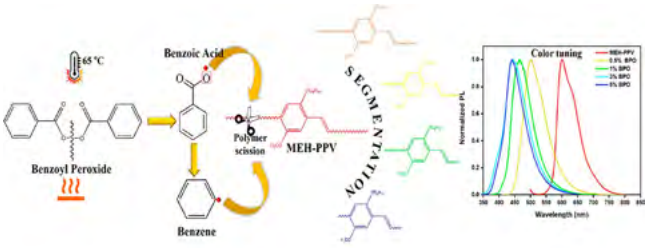
Mechanical Properties of textile fabrics for shoe - internal applications in footwear

Indian Journal of Fibre & Textile Research. Vol. 49, December 2024, pp. 479-485
DOI: 10.56042/ijftr.v49i4.8438

Optically Tunable Light-Emitting Polymer Blends

Materials can release energy in the form of light (Light emission) due to electronic transitions within atoms or molecules. These materials can emit light on their own, and they are known as luminous materials/substances/objects. This process is being naturally observed in the moon, firefly (Lampyridae) etc., This phenomenon has inspired many researchers to look for a new class of substances. In 1906, the first observation of light-emitting in silicon carbide (carborundum, a synthetic substance) was by Henry Joseph Round. In this century, Light-Emitting Diode (LED) is one of the highly useful objects, which is energy-efficient, durable, and offers design flexibility. It is playing a crucial role in modern electronics and lighting in our day-to-day lives. CSIR-CLRI researchers are also engaging polymer-based light-emitting materials as a developmental work. In this view, one-pot synthesis of semiconductive polymer blends with tunable optical properties with enhanced material stability is developed. It is achieved by the controlled oxidation of poly[2-methoxy-5-(2-ethylhexyloxy)-1,4-phenylenevinylene] (MEH-PPV). The bulk polymerization of methyl methacrylate (MMA) in a MEH-PPV solution with benzoyl peroxide (BPO) as an initiator for MMA and a radical scavenger for MEH-PPV led to oligomers with controlled conjugation lengths and improved photostability. The BPO-mediated reaction cleaves MEH-PPV, allowing modulation of optical properties by adjusting the initial polymer concentration and BPO amount. Additionally, BPO facilitates interfacial functionalization between MEH-PPV and poly(methyl methacrylate) (PMMA), enabling emission intensity tuning by varying the blending ratios. In conclusion, the tunable photophysical properties of MEH-PPV polymer blends were successfully demonstrated by varying the concentration of BPO, the mixing ratio of MEH- PPV/MMA, and the initial concentration of MEH-PPV. The controlled free-radical scission of MEH-PPV chains, induced by BPO, led to a hypsochromic shift in the emission spectra, with shorter chain lengths exhibiting blue-shifted emission. Furthermore, altering the initial polymer concentration also brought about changes in the emission color, allowing the tuning of emission across the visible region from red to blue, highlighting the flexibility of these materials for color-specific applications. Through this process, optimized conditions for red-, green-, and blue-emitting polymer blends were established. It was followed by structural, photophysical, thermal, and photostability analyses. This study has confirmed the potential of interfacial interactions for the advanced optoelectronic materials from MEH-PPV and PMMA.

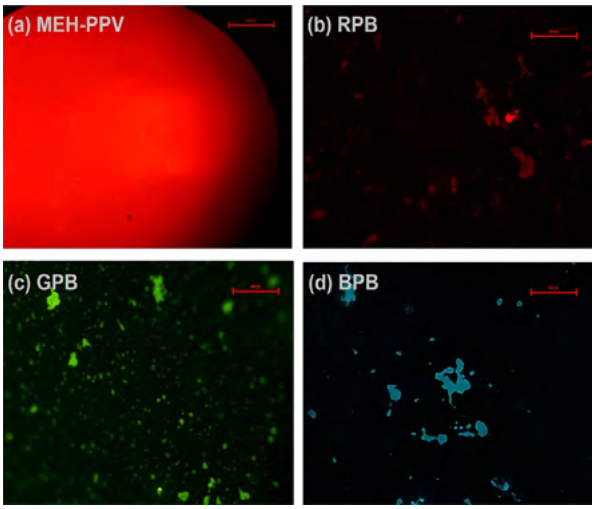
Overall, the research highlights the importance of controlling polymer degradation, aggregation behavior, and blending parameters to achieve desirable optical properties.



Sangeetha Ashok Kumar,* Siddan Gouthaman, Bhuvana K Periyasamy, and Suguna Lakshmi M

Optically Tunable and Highly Stable Light-Emitting Polymer/PMMA. Blends via the Controlled Oxidation of MEH-PPV Using Benzoyl Peroxide,

ACS Omega, 2025, 10, 30013–30022.
https://doi.org/10.1021/acsomega.4c10889



Publications from CSIR-CLRI

September 2025

1	Narayanan, K; Murugan, KS; Sutharsan, M; Thomas, M; Natarajan, TS, Solar light-activated ZnO/g-C3N4 nanocomposites with improved water pollutant treatment and antibacterial efficiency, Journal of Nanoparticle Research, SEP 10, 2025, 27 (9), 10.1007/s11051-025-06419-7
2	Chatterjee, S; Guha, AK; Chatterjee, B; Banerjee, P; Singha, NR, Sulphate-modified chitosan hydrogel beads a recyclable bio-adsorbent for Cu(II): Experimental and theoretical studies toward nitrogen-/oxygen-donor selective binding and 1:1 complexation, International Journal of Biological Macromolecules, SEP, 2025, 323, 10.1016/j.ijbiomac.2025.146997
3	Ravichandran, S; Thanikaivelan, P, Sustainable solar-driven photodegradation of ranitidine hydrochloride and tetracycline using Ag2O-TiO2/carbon nanocomposite: mechanistic insights and environmental implications, Materials Today Sustainability, SEP, 2025, 31, 10.1016/j.mtsust.2025.101191

SHANTI SWARUP BHATNAGAR MEMORIAL TOURNAMENT SSBMT-2025

CSIR-CLRI staff members participated in the 53rd Shanti Swarup Bhatnagar Memorial Tournament (SSBMT 2025), at CSIR-SERC, Chennai, from 30 August 2025 to 1 September 2025. Organized by the CSIR Sports Promotion Board, the sports event witnessed enthusiastic participation from 8 CSIR Laboratories, including CSIR-CECRI, Karaikudi, CSIR-CIMAP, Lucknow, CSIR-IICB, Kolkata, CSIR-NAL, Bangalore, CSIR-NBRI, Lucknow, CSIR-NGRI, Hyderabad, and CSIR-NIScPR, New Delhi.

The participating institutes were competing in a variety of indoor sports, including Badminton, Table Tennis, Chess, Carrom, and Bridge. Dr. (Smt.) N. Anandavalli, Director, CSIR-SERC, and Dr. K. J. Sreeram, Director, CSIR-CLRI, delivered the inaugural address. The Chief Guests also released a souvenir to mark the commencement of the event. Dr. Vasha R Ohatker, Medical Officer, CSIR-IICT & SPB Observer, administered the SSBMT oath.

84th CSIR Foundation Day Celebrations at CSIR-CLRI

CSIR-CLRI celebrated the 84th CSIR Foundation Day on 29 September 2025. To mark the occasion, several events were organized at the Institute. Prof. (Dr.) Shishir Sinha, Director General of the Central Institute of Petrochemicals Engineering & Technology (CIPET), Chennai, was the Chief Guest at the event and delivered the Foundation Day Lecture. Dr. K. J. Sreeram, Director, CSIR-CLRI, welcomed the Chief Guest and spoke about the Institute's contributions to the field of Science and Society. Professor (Dr.) Shishir Sinha delivered an inspiring Foundation Day Lecture. During the event, the cover page of the CSIR-CLRI

Annual Report 2024-25 was also released.

On the occasion, Dr. K.J. Sreeram, Director, CSIR-CLRI, presented awards and mementos to retirees and staff who have completed 25 years of dedicated service to the Council. "*An Open Innovation Idea Competition*" for school children and a Quiz Programme. Program for the CSIR-CLRI staff and research scholars were held, and the winners were

presented with the prizes by the Chief Guest. Out of total 23 teams registered for the event, 6 teams were shortlisted after conducting an elimination test. After 5 rounds of evaluation, the first 3 teams with the highest marks were declared winners.


सीएसआईआर–केन्द्रीय चर्म अनुसंधान संस्थान
CSIR–CENTRAL LEATHER RESEARCH INSTITUTE
CSIR Foundation Day Celebrations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CSIR Foundation Day Celebrations


Dr Jitendra Singh


Dr Jitendra Singh


CSIR-CENTRAL LEATHER RESEARCH INSTITUTE
CSIR Foundation Day Celebrations


Dr Jitendra Singh

The general quiz was held on 26 September 2025 as part of the 84th CSIR Foundation Day celebrations at CSIR-CLRI. A total of 23 teams have registered, and six teams have been shortlisted for the quiz after conducting an elimination test. After five rounds of evaluation, the first three teams with the highest marks were declared winners.

Blood Donation Camp

On the occasion of the CSIR Foundation Day, CSIR-CLRI, in association with the Department of Leather Technology, Anna University, organized a Blood Donation Camp on 26 September 2025. The camp was supported by Voluntary Health Services (VHS) Multi-Specialty Hospital, Adyar. Chennai.

Open Innovative Idea Competition (OI²C) for School Students

Under the aegis of JIGYASA, CSIR-CLRI organized Open Innovative Idea Competition (OI2C) for School Students on 24 September 2025, focusing on "*Big Ideas, Bright Future! & Dream it. Build it. Show it!*". School children, either as individuals or teams 2-3 students, participated in this competition under two categories:

Junior – Class VI-X
Senior – Class XI-XII

Original ideas and write-ups were sought and received from the students on the following areas:

Health, Energy, Environment, and Lifestyle

Out of 75 entries, 25 entries from about 15 different schools were shortlisted for presentation on 24 September 2025. The students showcased their prototypes and ideas, which were evaluated by experts from the University of Madras, Anna University, and D. G. Vaishnav College. The participating students also interacted with scientists and research scholars from CSIR-CLRI. It was inspiring to see the students presenting many out-of-the-box ideas.

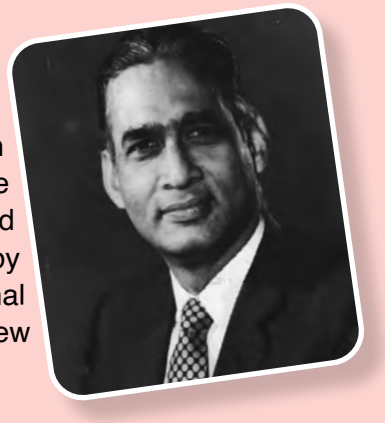
The winners of the competition were felicitated at the CSIR Foundation Day Celebrations on 29 September 2025. All the shortlisted entries in the competition also received the participation certificate.

Waste2Wealth (W2W) Mission Project

The 3rd monitoring Committee of the CSIR mission project Waste2Wealth (W2W) was held on 1 September 2025 at CSIR-CLRI under the chairmanship of Prof. E.S. Dwarakadasa, Former Professor, Indian Institute of Science (IISc), Bangalore, with Dr K J Sreeram, Director CSIR-CLRI, as mission Director. Under this project, CSIR is expected to develop a host of technologies that generate value-added products and chemicals from Industrial wastes.

Birth Anniversary of Prof. Y.Nayudamma

CSIR-CLRI commemorated the birth anniversary of its visionary leader, Prof. Yalavarthi Nayudamma (1922-1985), on 10 September 2025. Prof Nayudamma's was the Director of CLRI during 1958-1971. Under his leadership, CLRI emerged as one of the most renowned centres of leather research. He ensured that the CLRI has an effective liaison with the leather industry thereby leveraging significant contributions in research & development and technology transfer. Dr Nayudamma held several important leadership positions including the Director General of CSIR; Secretary, Department of Space, Gov. of India; Vice Chancellor, Jawaharlal Nehru University; Advisor, UNDP and Governor, International Development Research Centre (IDRC). He was conferred with '*Padmashri*' by the Govt. of India and Mahalnobis award by the Indian National Science Academy, New Delhi.



Director, Dr K J Sreeram, and staff of CSIR-CLRI garlanded the bust of Prof. Nayudamma at the Main building of CSIR-CLRI recalling his inspiring leadership and contributions.

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Executive Skill Development Program in Leather Goods Manufacture

CSIR-CLRI organized a Short-Term Executive Skill Development Program in Leather Goods Manufacture during 2 July 2025 to 3 September, 2025. Four executive trainees participated in the Program and completed the course. During the feedback session, the trainees expressed that the training program was highly valuable in advancing their skills and enhancing their business knowledge related to leather goods and allied products.

Skill Development Program in Leather Processing

Three executive trainees with a background in the leather industry completed a short-term Skill Development Program in Leather Processing organised from 18th August to 19th September 2025 by CSIR-CLRI. This program was designed to provide comprehensive technical knowledge and practical insights into modern leather processing practices.

The curriculum encompassed core topics such as skin and hide structure, raw material selection, tanning technologies (chrome, vegetable, and aldehyde), post-tanning processes, dyeing, finishing, and mechanical operations. A strong emphasis was placed on sustainability, including chrome management, eco-friendly alternatives, wastewater treatment, and solid waste management. Trainees also gained hands-on experience in leather testing, quality assurance, and classification of leathers based on HSN codes.

During the feedback session, participants rated the program as excellent. In their assessment, the trainees acknowledged that the Program had significantly enhanced their technical knowledge and would support the growth and modernization of their family-run leather businesses.

Non-Leather Footwear Pilot Plant at CSIR-CLRI

A Non-Leather Footwear pilot plant was inaugurated at CSIR-CLRI, Chennai, on 29 September 2025. The inauguration of this facility was held during the 84th CSIR Foundation Day celebrations by the Chief Guest, Prof. (Dr.) Shishir Sinha, DG-CIPET.

The pilot plant was created under the Facility Creation Projects 2.0 (FCP 2.0) of CSIR Special Projects Scheme (CSPS-2024), Under this scheme, two Non-Leather footwear pilot plants have been established, one at CSIR-CLRI, Chennai, and another at the CSIR-CLRI Regional Centre, Jalandhar.

The salient features of the Scheme are:

- Development of technologies for non-leather footwear, especially in the segments such as Safety Footwear, Children's Shoes & Sports footwear.
- Developing prototypes using new materials/a combination of materials and testing for their performance.
- Demonstration of technologies related to footwear materials for potential stakeholders/industries, leading to translation of technologies.
- Create specialized training modules and develop a skilled workforce to meet the growing demands of the non-leather footwear sector in India.

MM Hashim Memorial Lecture 2025

The first MM Hasim Memorial Lecture was organized by CSIR-CLRI on 1 September 2025 to pay tribute to Shri. Malack Mohamed Hashim (01.09.1939 - 04.07.2025). Shri Hashim was a pioneering luminary in the Indian leather and footwear industry, serving as the esteemed Chairman of KH Group (KH Exports India Pvt. Ltd.). Renowned for his unparalleled expertise in tanning, manufacturing, and global exports, Shri Hashim played a defining role in shaping and elevating the Indian leather sector. He established one of the country's first effluent treatment plants in his tannery in 1978. He championed ethical practices, employee welfare, and sustainability, including pioneering efforts in establishing common effluent treatment systems in collaboration with CSIR-CLRI, NEERI, UNIDO. A recipient of the Lifetime Achievement Award from CLE in 2018, he was widely celebrated as a doyen of the leather industry.

Delivering the Memorial Lecture, Dr. T. Ramasami, Former Secretary, Department of Science of Technology and Former Director, CSIR-CLRI spoke on his long association with Shri Hashim. Dr T. Ramasami shared his experiences of working closely with Shri MM Hashim in reopening over 700 tanneries in Tamil Nadu that had been closed by the orders of the Hon'ble Supreme Court, within just 18 months in 1996. They also coordinated the successful implementation of the Leather Technology Mission together.

CSIR Open Day

CSIR-CLRI commemorated the 84th CSIR Foundation Day and observed a week-long Open Day from 22–26 September 2025. The Open Day was designed to engage the public, especially students, by showcasing its research, innovations, and training programs.

School students and teachers visited various laboratories at CSIR-CLRI and interacted with scientists and research scholars. The visiting students had the opportunity to learn about the cutting-edge developments in leather processing, product design (leather and non-leather), alternative materials, and CAD tools for footwear. During the event, opportunities for internships, academic partnerships, and skill development were shared with the students and teachers.

During the Open Day, CSIR-CLRI witnessed participation of over 1,025 students and 69 faculty members from 24 institutions across Tamil Nadu, reflecting strong academic and public engagement.

CSIR Open Day

CSIR-CLRI organized an event to mark the successful conclusion of the Open Day Program on 27 September, 2025, as part of the CSIR Foundation Day celebrations. Mrs. S. Shyamala, Executive Committee Member of Vijnana Bharati (VIBHA) and State Coordinator of Vidyarthi Vigyan Manthan (VVM), Tamil Nadu, was the Chief Guest and participated in the event. She inaugurated the VVM standee and distributed information leaflets to the participating students and teachers. The Program featured a telecast of a video highlighting CSIR's significant research and technological achievements.

CSIR Open Day

CLRI Regional Centre, Jalandhar

CLRI Regional Centre, Jalandhar celebrated the 84th CSIR Foundation Day as "*Open Day*" on 26 September 2025. Students and faculty from Kendriya Vidyalaya III, Jalandhar Cantonment, along with technical personnel from various tanneries, actively participated in the event. Shri Ashok Sachdeva, MD, Punjab Hide Company, and an alumnus of CSIR-CLRI, was the Chief Guest. In his address, Sh. Sachdeva spoke about the significant contributions of CSIR and CLRI to society and industry. During the Open day event, latest developments in leather and leather products, as well as physical/chemical testing of leather, were demonstrated and explained to the students by the S&T Staff of CLRI Regional Centre Jalandhar. The participants expressed their overwhelmingly positive feedback.

CLRI Regional Centre, Kolkata, celebrated the 84th CSIR Foundation Day with an Open Day and Design Showcase event. Scientist-In-Charge welcomed the faculty and students from the National Institute of Fashion Technology (NIFT), Kolkata, and presented the research and innovations of CSIR-CLRI. A highlight of the event was a design competition featuring sustainable products developed by NIFT students. These designs integrated CSIR-CLRI technologies (chrome-free leather, fish/chicken feet leather, and scrap utilization) in the products.

Five student teams, each comprising five members, demonstrated a strong awareness of sustainability, circular economy principles, and carbon footprint reduction, aligning with CSIR-CLRI's mission. The competition not only showcased imaginative applications of novel leathers but also sparked meaningful dialogue on market feasibility, aesthetics, and environmental responsibility.

Their presentations spanned diverse categories such as:

Innovation: *Footwear and wearable technology.*
Traditional Craft: *Potli bags.*
Utility Products: *Stationery*.
Conceptual Explorations: *Garments inspired by nature themes.*

On the occasion of the 84th Foundation Day of the CSIR, an "*Open Day*" for students was organised at the CLRI Regional Centre, Kanpur. More than 150 students of Leather Technology and Footwear Technology from the Department of Leather Technology (HBTU Kanpur), Govt Leather Institute Kanpur, and Govt Polytechnic Bighapur (Unnao), with their faculty, visited the state-of-the-art testing laboratory of CSIR-CLRI at the Kolkata Leather Complex (KLC). Various steps of leather processing, different types of finished leathers, and the mechanical/chemical testing of leather and leather products were demonstrated and explained by the S&T staff of CLRI Regional Centre, Kanpur.

Scientific Hindi Seminar on जैव अर्थ व्यवस्था रू उज्ज्वल भविष्य की ओर (Bioeconomy: The way forward)

CSIR – Central Leather Research Institute, Chennai, organized a Scientific Seminar on जैव अर्थ व्यवस्था रू उज्ज्वल भविष्य की ओर (Bioeconomy: The way forward) in Hindi on 10 September 2025. The seminar commenced with the invocation. Dr. K. J. Sreeram, Director, CSIR-CLRI graced the occasion as the Chief Guest. Shri K M Sridhar, Sr. Controller of Administration, delivered the introductory remarks and welcomed the gathering.

Dr. K. Sri Bala Kameshwari, Chief Scientist, CSIR-CLRI, delivered her address as the special guest. In her speech, she emphasized the importance of the mother tongue in establishing a strong foundation in science education and innovation. It is expected that higher education and research institutions should

make scientific literature, especially material related to emerging fields like bio-economy, available in technically accurate and easily understandable Hindi. Dr. K. J. Sreeram, emphasized the role of Hindi, particularly in the dissemination of science. He said, "*No scientific progress is complete until it reaches beyond the laboratories to the fields and the common people in their own language*." Creating simple Hindi terminology and literature is crucial to disseminate bio-economy innovations (such as biofuels, organic

farming techniques) to farmers, small entrepreneurs, and students. He urged scientists to publish their research abstracts and reports in Hindi as well to democratize scientific knowledge. He appreciated the organization of such a scientific seminar in Hindi, and highlighting the importance of science communication in today's scientific era.

Dr. T. Shakila Shobhana, Principal Scientist; Dr. Yasmin Khambhati, Principal Scientist; Dr. Indrasis Das, Scientist; Dr. R. Karthik, Scientist; Dr. Jit Sarkar, Scientist; Dr. Saikat Choudhury, Scientist; Mr. Pramod Kumar Mittal, Technical Assistant; and Mr. Sachin Sharma, Technical Assistant, delivered insightful lectures on the topic "Bioeconomy: The way forward." Ms. Sneha Suresh, Junior Hindi Translator, thanked all the participants for making the event a success.

Participation at The National Institute of Advanced Studies (NIAS) Training Program

The National Institute of Advanced Studies (NIAS), with support from the DST, organized a training Program for mid-career and senior-level scientists, scientist-administrators, and technologists focusing on the theme of "*Science & Technology: Global Developments & Perspectives*" during 15-19 September 2025. The training Program was aimed at developing leadership qualities through the integration of multidisciplinary knowledge. The sessions included lectures by many eminent personalities Prof. P. Balaram, former IISc Director, Dr. S. Somanath, Former ISRO Chairman, Dr. Shailesh Nayak, Director, NIAS & former Secretary, Ministry of Earth Sciences (MoES) etc., Dr. S. Swarnalatha, Principal Scientist, participated in the training Program and presented her research work in the forum. As Session Chair, she conducted a lecture session of Prof. Kuruvilla Joseph, Pro-Vice Chancellor and Distinguished Professor, Indian Institute of Space Science and Technology.Ministry of Earth Sciences (MoES) etc.

Dr. S. Swarnalatha, Principal Scientist, participated in the training programme and presented her research work in the forum. As session chair, she conducted a lecture session of Prof. Kuruvilla Joseph, Pro-Vice Chancellor and Distinguished Professor, Indian Institute of Space Science and Technology.

CSIR-CLRI at Footwear Expo

Team CSIR-CLRI participated in the Footwear Expo, organised by Micro Small and Medium Enterprises (MSME) at Bahadurgarh, Haryana, during 18-19 September 2025. During this event, materials for non-leather footwear, footwear components, and accessories, primarily catering to India's indigenous non-leather footwear manufacturers, were showcased.

Visit of D.K.M. College for Women, Vellore

About 93 undergraduate and postgraduate students from the Department of Chemistry at D.K.M. College for Women (Autonomous), Vellore, along with five faculty members, visited the CSIR–CLRI in Chennai on 19 September 2025. During the visit, scientists and staff explained various research areas, including leather processing, biochemical and bioinformatics applications, healthcare, bioorganic and inorganic chemistry, and advanced materials science. They also showcased available instruments and discussed skill development and training opportunities. The students found the visit to be very informative and felt that it would greatly benefit their academic and professional growth.

Visit of CanBrs Therapeutics Private Limited

CanBrs Therapeutics Private Limited at the IIT Madras Research Park, organised a workshop. As part of their program, the participants visited the CSIR–CLRI on 18 September, 2025, with a group of about 21 participants. The participants interacted with the scientists and researchers in the field of biotechnology and biomaterial-for gaining exposure to current research trends in the field.

Visit of K.M.G. College of Arts and Science

As part of the 84th CSIR Foundation Day celebrations, CSIR–CLRI organised an Open Day as part of a week-long event for students. On 25 September 2025, about 50 undergraduate and postgraduate Chemistry students from K.M.G. College of Arts and Science (Autonomous), Gudiyatham, along with three faculty members, visited CSIR–CLRI in Chennai.

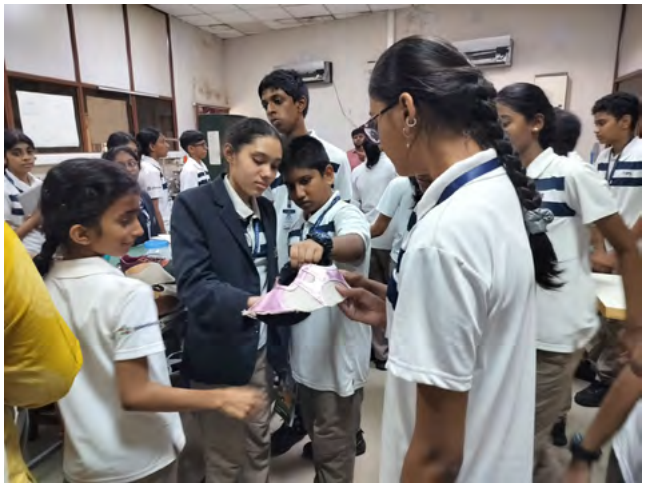
Scientists and staff explained research areas such as leather processing, polymer chemistry, bioorganic and inorganic chemistry, and advanced materials science. They also shared information about training and skill development opportunities. The students found the visit informative and felt it would support their academic and career interests.

Visit of Kendriya Vidyalaya, Anna Nagar, Chennai

As part of the JIGYASA 2.0 initiative, about 189 students from Class 10 and 8 teachers from Kendriya Vidyalaya, Anna Nagar, Chennai, visited the various laboratories at CSIR on 4 September 2025. The visit was organized under the Pradhan Mantri Schools for Rising India (PM SHRI) scheme. During the visit, students engaged with subject experts who shared valuable insights into various career opportunities in science and engineering. The demonstrations included leather processing techniques, manufacturing of leather goods and footwear, wastewater treatment methods, and an overview of employment prospects in the leather and allied industries.

Visit of The Indian Public School (TIPS), Perungudi, Chennai

As part of the 84th CSIR Foundation Day celebrations, CSIR-CLRI organised an Open Day Visit to mark the week-long event and benefit students. On 25 September, 2025, around 108 students of Class 8 and 7 teachers from The Indian Public School (TIPS), Perungudi, Chennai, visited the CSIR-CLRI campus. During the visit, students explored leather processing technologies, learned about the development of various leather products, and received information about skill development, training programs, and career opportunities in the leather industry. The visit aimed to create awareness and spark interest among students about science and the leather sector.



Visit of MCC Public School, Chetpet, Chennai

As part of the JIGYASA 2.0 initiative, approximately 53 students from Class XI and XII, accompanied by three teachers from MCC Public School, Chetpet, Chennai, visited the CSIR-CLRI on 10 September 2025. During the visit to various laboratories, students had the opportunity to interact with subject matter experts who provided valuable insights into diverse career opportunities in science and engineering streams. The program included demonstrations on leather processing techniques, manufacturing of leather goods and footwear, Biotechnology techniques, and Wastewater treatment processes. Additionally, the students received an overview of employment prospects in the leather and allied industries, broadening their understanding of potential career paths in these sectors.their understanding of potential career paths in these sectors.

Swachhata Pledge at CSIR-CLRI

Dr. K.J. Sreeram, Director, CSIR-CLRI, administered the Swachhata Pledge on 18 September 2025 to the staff members of the Institute at the Reception Hall, Main Building. Staff members, Research Scholars, and students participated in the event and took the Pledge.

Swachhata Hi Seva (SHS) Campaign 2025 at CSIR-CLRI

CSIR-CLRI organized Swachhata Hi Seva (SHS) Campaign 2025 on 18 September 2025 with a theme "*Keeping our Office clean*!" During the campaign, long-standing waste items and electronic waste accumulated in the Guesthouse of CSIR-CLRI were cleared for recycling.

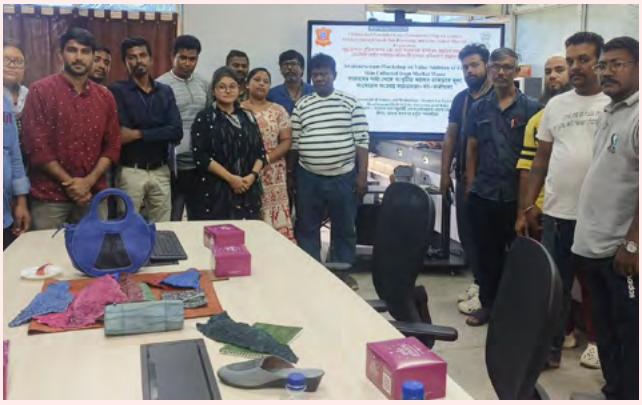
Also, old Pentium III and Pentium IV desktops and UPS were cleared from various departments and sent to the stores for safe disposal in accordance with the guidelines of Ministry of Environment, Forests, and Climate Change.

Training Program Value-added Materials from Invasive Janitor Fish

CLRI Regional Centre, Kolkata, organized a training program focused on recovering skin and other value-added materials from invasive Janitor fish on 24 September 2025. The initiative was conducted under the DST-SEED-funded project titled "*Upliftment of Scheduled Caste Communities and Migrant Leather Workers through Small Skin Processing and Value-Added Material Preparation*." Over 80 participants from Scheduled Caste communities received hands-on training during the program.

Awareness-cum-Training Program

The CLRI Regional Centre, Kolkata, organized an awareness-cum-training program on 24 September 2025 on the preservation and storage of fish skin sourced from market waste, under the DST-Science for Equity Empowerment and Development (SEED) funded project. "*Upliftment of Scheduled Caste Communities and Migrant Leather Workers through Small Skin Processing and Value-Added Material Preparation*." Under this project, opportunities are provided for taking up location-specific projects aiming at socio-economic development of disadvantaged sections of the society and improving the quality of life and livelihood. This Program was also aimed at the last-mile delivery and national development Programs to achieve Sustainable Development Goals (SDGs). About 80 participants attended the training.



CSIR-Central Leather Research Institute

(CSIR Integrated Skill Initiative Training Programme)

CSIR-CLRI announces the commencement of the following placement oriented courses

Leather Processing

- Post Graduate Diploma Programme in Leather Technology
- Diploma in Leather Processing
- Short Term Executive Skill Development Programme in Leather Processing
- Integrated Skill Development on Quality Control Methods in Leather Manufacture
- Computerized colour Matching for Leather manufacturing

Leather and Leather products

- Post Graduate Diploma Programme in Leather Products Technology
- Quality and Visual Inspection of Leather and Leather Products
- Skill Training Programme in Leather and Leather-like materials for Emerging Entrepreneurs
- Short Term Executive Skill Development Programme in Leather Upholstery Manufacture
- Course in Fashion Design and Development for Leather Lifestyle Products

Leather Goods and Garments

- Diploma in Leather Goods Manufacture
- Short Term Executive Skill Development Programme in Leather Goods Manufacture
- Training Programme in Leather Goods Design (Manual and CAD)
- Diploma in Leather Garment Manufacture
- Short Term Executive Skill Development Programme in Leather Garments manufacture
- CAD for Garments

Allied Science courses

- Bioinformatics Associate/ Analyst
- Quality Control Chemist – Microbiology
- QA Chemist Equipment Validation - Life Sciences
- Nuclear Magnetic Resonance (NMR) Spectroscopy Analyst
- Quality Assurance Chemist
- Leather Biotechnologist
- Enzyme Technologist
- Structural Analytical Technologist
- rDNA Technologist

Leather Allied Sectors

- Short Term Executive Training Programme on Occupational Health and Safety for Leather and Allied (Product) Industries
- Short Term Executive Training Programme on Testing and Calibration for Leather Sector
- Repair, restore and maintenance of leather products
- Short Term Executive Training Programme on Waste Management for

Footwear

- Diploma in Footwear Manufacture
- Short Term Executive Skill Development Programme in Footwear manufacture
- Training programme in GAIT Analysis
- CAD for Footwear

Please visit https://clri.org/training.aspx for online / offline submission of duly filled in application

CSIR-CLRI 75

For more info:

Website : https://clri.org/training.aspx

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