



सीएसआईआर-केंद्रीय काँच एवं सिरामिक अनुसंधान संस्थान CSIR-Central Glass & Ceramic Research Institute



79वीं सीएसआईआर स्थापना दिवस / 79th CSIR Foundation Day

Saturday, September 26, 2020 | 15:00 h IST | [Join Meeting](#)



Foundation Day Lecture on

“Transparent oxyfluoride nano-glass ceramics: Processing is the key”

by **Prof. Alicia Durán**, Instituto de Cerámica y Vidrio (CSIC), Madrid, Spain

Programme Schedule:

- 15:00 - 15:10 h** : Welcome address by Dr K Muraleedharan, Director, CSIR-CGCRI
- 15:10 - 15:15 h** : Introduction of the Chief Guest by Shri Sitendu Mandal, Chief Scientist & Chairman, 79th CSIR Foundation Day Core Committee
- 15:15 - 16:00 h** : Foundation Day lecture by Chief Guest, Prof. Alicia Durán, Research Professor CSIC and President, ICG, Instituto de Cerámica y Vidrio (CSIC), Madrid, Spain
- 16:00 - 16:20 h** : Interactive Session
- 16:20 - 16:30 h** : Announcement of “Paresh Narjinary MTS Award”
- 16:30 - 16:50 h** : Announcement of cash awards & studentship to the wards of CSIR employees, current year retirees and employees completing 25 years service in CSIR
- 16:50 - 17:00 h** : Vote of Thanks by Shri R K S Roushan, Administrative Officer & Member, 79th CSIR Foundation Day Core Committee

Dr. K. Muraleedharan, Director, CSIR-CGCRI cordially invites you to attend the webinar...

Phone: +91-33-24735829; Email: director@cgcri.res.in, URL: www.cgcri.res.in

79th CSIR Foundation Day Core Committee:

Shri Sitendu Mandal
Controller of Administration / Administrative Officer
Controller of Finance & Accounts

Dr Ambarish Sanyal
Shri Debashish Sarkar
Shri Rahuldeb Mukhopadhyay

Shri Mahesh Prasad
Ms. Unmona Sikdar

Title of the lecture: Transparent oxyfluoride nano-glass ceramics: Processing is the key

Transparent oxyfluoride glass-ceramics (OxFGCs) have attracted great interest in the field of photonics since the pioneering work of Wang and Ohwaki. Alumina-silicate glass matrices are particularly suitable for their excellent mechanical, thermal and chemical properties compared to phosphate or fluoride glasses. On the other hand, fluoride crystals, especially those containing Ln^{3+} ions, are especially good hosts for their low phonon energy and offer high solubility of Rare-Earth (RE) ions. The classical processing route to obtain transparent OxGFCs consists on a controlled crystallization of the precursor glass obtained by melt-quenching (MQ). Bulk materials and fibers have been obtained by this method although this processing route faces the problem of the high melting temperatures that cause a fluorine loss, limiting the final crystal content to less than 10 wt%.

On the other hand, the sol-gel process is a suitable alternative to prepare OxGFCs materials due to the low synthesis and sintering temperatures involved, thus allowing the preparation of novel compositions, especially as thin films, with higher crystal content up to 30 wt%.

In this work we will show the results, obtained in the last ten years, for bulk, optical fibers and thin films produced by MQ, sol-gel and fibering. In particular, the relationship between processing, structure and improved optical properties will be discussed focusing on the superior optical properties of these materials as compared to the precursor glasses.



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कार्यक्रम

- 15.00 से 15.10 बजे : सीएसआईआर-सीजीसीआरआई के निदेशक डॉ के मुरलीधरन द्वारा स्वागत भाषण
- 15.10 से 15.15 बजे : श्री सीतेंदु मंडल, मुख्य वैज्ञानिक और अध्यक्ष, 79^{वें} स्थापना दिवस समारोह आयोजन समिति, द्वारा मुख्य अतिथि का परिचय
- 15.15 से 16.00 बजे : मुख्य अतिथि, प्रो. एलिसिया डुरान, रिसर्च प्रोफेसर इंस्टीट्यूट डी सेरामिका वाई विडरियो मैड्रिड, स्पेन द्वारा स्थापना दिवस व्याख्यान
- 16.00 से 16.20 बजे : परस्पर संवादात्मक सत्र
- 16.20 से 16.30 बजे : एमटीएस पुरस्कार घोषणा
- 16.30 से 16.50 बजे : सीएसआईआर कर्मचारियों के संतानों को छात्रवृत्ति एवं नक़द पुरस्कार संबंधी घोषणा तथा इस वर्ष से सेवा निवृत्त होने वाले कार्मिक एवं 25 वर्ष की सेवा पूरा करने वाले कर्मचारियों के नामों की घोषणा
- 16.50 से 17.00 बजे : श्री आर के एस रौशन, प्रशासनिक अधिकारी एवं सदस्य, 79^{वें} सीएसआईआर स्थापना दिवस समारोह आयोजन समिति द्वारा धन्यवाद ज्ञापन

79^{वें}
सीएसआईआर स्थापना दिवस
सितंबर 26, 2020



79th
CSIR Foundation Day
September 26, 2020



सीएसआईआर-केन्द्रीय कांच एवं सिरामिक अनुसंधान संस्थान
196, राजा एस सी मल्लिक रोड, कोलकाता 700 032
CSIR-Central Glass & Ceramic Research Institute
196, Raja S C Mullick Road, Kolkata 700 032

Members of the staff who retired on superannuation between September 2019 and August 2020



Dr. Keka Mukherjee



Shri Bhikari Chand



Dr. Anjan Chakraborty



Dr. Bharat Bhushan Jha



Dr. Rajendra Nath Basu



Dr. Sanjoy Mondal



Shri Yad Ram



Shri S S Mukhopadhyay



Shri Indra Kant Jha



Shri Susanta Kr Sanpui



Shri Gopal Ch. Das



Shri Kamal Kanti Sardar



Dr. Siddhartha Bandopadhyay



Shri Prasanta Kr Das



Shri Anish Kr. Majumder



Dr. Omprakash Chakraborty



Shri Mihir Das

Members of the staff who have completed 25 years of Continuous Service in CSIR



Dr. Subrata Dasgupta



Shri Jyotirmoy Sikder



Shri Bhavesh Chakraborty



Shri R K S Roushan



Shri Shatrughan Prasad



Smt Minati Das



Smt Swarupa Das



Shri Yam Bahadur Gurung

Academic Excellence



Ms Aishika Das, D/o Shri Prasenjit Kr Das, has been found eligible for one time cash award of Rs. 3000/- for securing 90% marks or above in each of minimum three science subjects in Sr. Secondary exam (Class XII), 2020.



Mr Udvas Basak, S/o Dr. Samarendra Basak, has been found eligible for one time cash award of Rs. 3000/- for securing 90% marks or above in each of minimum three science subjects in Sr. Secondary exam (Class XII), 2020.



Mr Srinjoy Ray, S/o Smt. Subarna Ray, has been found eligible for one time cash award of Rs. 3000/- for securing 90% marks or above in each of minimum three science subjects in Sr. Secondary exam (Class XII), 2020.



Mr Arghyamalya Biswas, S/o Shri Snehasis Biswas, has been found eligible for studentship @ Rs 1500/- per month for securing admission in 2020 in M.Sc. course in IIT Kanpur after qualifying IIT JAM, 2020.

In Fond Remembrance



Shri Paresh Chandra Narjinary, Non-Technical, Group-C (MACP) left for his heavenly abode on July 12, 2020. All the staff members of the institute deeply mourn at his untimely demise.