

Technical Article

- Novel Magnetic Graphene Oxide Composite Material as a Solid-Phase Adsorbent for Uranium Removal

Young Officer's FORUM

- IN-SITU Calibration System for Area Gamma Monitors and Autonomous Gamma Dose Loggers

Young Researcher's FORUM

- Inter-droplet Force Between Magnetically Polarizable Pickering Oil-in-water Nanoemulsions Stabilized with γ - Al_2O_3 Nanoparticles: Role of Electrostatic and Electric Dipolar Interactions

News and Events

- Role of Nuclear and other Advanced Technologies for Climate Change Control
- Hindi Workshop
- Report on Transfer of IGCAR's Conductivity Meter Technology
- Women's Day Celebrations at IGCAR 2023

Awards, Honours and Recognitions

Bio-diversity @ DAE Campus, Kalpakkam



Director's Message

Dear Colleagues,

The fuel handling operation required for the 32nd campaign of FBTR was planned in two stages. The first stage of fuel handling operation to load two MK-1 fuel assemblies into the core, was completed. Reactor was started on 31st March to measure shutdown margin and operated at 25kWt to measure control rod worth. Commissioning of new 670 kW, 6.6 kV HT motor for Main Boiler Feed Pump (MBFP)-"A" was completed. An integrity test of MBFP motor-A for 100 hrs continuous operation was completed. All the mandatory surveillance checks including DG load test as per the planned schedule were carried out. 64th campaign for reprocessing of 105 GWd/t Burnup FBTR fuel in CORAL facility has been completed successfully.

The upgraded Online Nuclear Emergency Response System (ONERS-2) with provisions for radiological consequence assessments using Time-Dependent source Terms has been installed along with Numerical Weather Prediction & Dispersion Models on the High Performance Computing System at the Nuclear and Radiological Emergency Monitoring Cell, AERB Mumbai. The ONERS is used by NREMC-AERB for monitoring of emergency exercises and training purposes. The installation of C-Band Doppler Weather RADAR at Kalpakkam site in collaboration with ISTRAC has been completed. Endurance test and other commissioning works are in progress.

The transfer of Pulsating sensor-based conductivity meter technology developed in IGCAR to M/s. Lablink, Mumbai based industry on a non-exclusive basis was carried out as part of 'Atma Nirbhar Bharat' mission.

Women's day was celebrated from March 1-7, 2023, at IGCAR. Ministry of Women and Child Development had directed DAE to create awareness about the schemes developed by the government for the welfare of women. The celebrations included competitions and felicitating girl students who have excelled in studies, sports, and cultural events.

I appreciate the efforts of the editorial committee and the authors for their contributions to the newsletter.

[B. Venkatraman]
Director IGCAR & GSO

Women's Day Celebrations at IGCAR 2023

March 1- 7, 2023



Felicitation to school children

Women's Day was celebrated from March 1- 7, 2023, at IGCAR. The celebrations included competitions and felicitating girl students who have excelled in studies, sports and cultural events. Distinguished women in law and justice, news broadcasting and financial advice were invited to share their experiences and educate the audience.

Ministry of Women and Child Development had directed DAE

to create awareness about the schemes developed by the government for the welfare of women and to felicitate achievement by women during the week of March 1 to March 8 through various celebrations.

IGCAR organized competitions like slogan writing, posters, elocution and skits on topics related to Women's empowerment. Such competitions are the best method to spread the concept



Felicitation to Mehetva founder member Mrs Blossom Rodriguez,



International Women's day celebrations

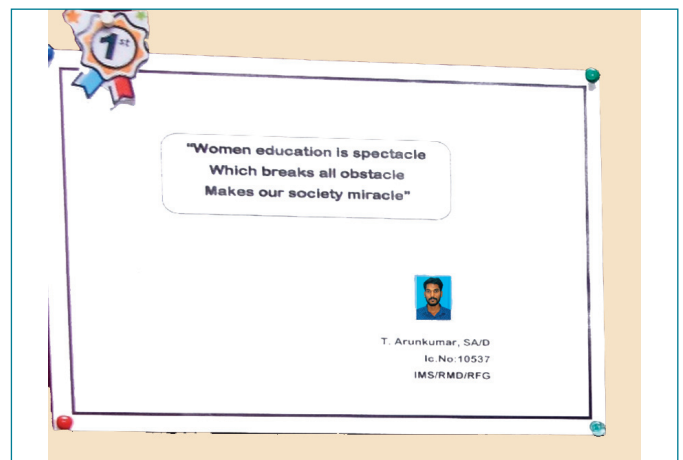
and the various schemes for women's empowerment. More than 150 employees participated in the competitions. Forty employees played six skits on topics including Women's empowerment, Gender Equality, the Role of working women in society, The benefit of treating women with dignity, Innovative methods to protect women and Government schemes for women. The best slogan is portrayed on the Figure-1.

Ms. Leela Meenakshi IIS, Joint Director, All India Radio, spoke on her experiences in the News services field on March 3, 2023. Ms Renu Maheswari, SEBI registered investment advisor and co-founder Finscholarz Wealth Managers, spoke on "Know Your Money" on March 6, 2023. IWSA organized this lecture.

IGCAR organized an awareness lecture by Ms. Sulekha Beevi, Member Judicial Customs Excise and Service Tax Appellate Tribunal, Chennai Region, on March 7, 2023. The cases between Bajaj & Gill, the Vishakha case, etc., were discussed in this lecture. During the interactive session, the speaker explained the law to protect women against sexual harassment in the workplace.



Felicitating Sri Raghupathy , Director, RDTG,EIG and RFG



First prize - Slogan Competition

As a token of appreciation, a memento was gifted to all women employees of IGCAR and CISF at Kalpakkam on Women's day.

Mehetva is a school at Kalpakkam township where training is given to special children was founded by three women in 1996 and has been run successfully by them since then. The school requires specialized training for teachers and other staff to handle the children. On Women's day celebrations 2023, IGCAR honored the founding members of Mehetva, Ms.Blossom

Rodriguez and present organizing member Ms. Chitra.

A total of 50 students from the neighbouring schools AECS1, AECS2, AECS Anupuram, KV1, KV2 and two Tamil Medium schools from Sadras and Pudupattinam were honored.

*Reported by
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Safety, Quality & Resource Management Group