N.23: New recruits

RRCAT welcomes the following personnel who have joined during January to June 2019.

- Kum. Ratna Kumari Karn, SAC, LFMD
- Shri Prince Pandey, SAC, LED
- Shri Ganpat Singh, Dr.Gr.(O), EAG
- Shri Devendra Kumar, SG, ADMIN
- Shri Pramjeet, SG, ADMIN
- Shri Shashikant Verma, SG, ADMIN
- Shri Rishikesh Meena, SG, ADMIN
- Shri Pramod Singh, SG, ADMIN
- Shri Chand Singh, SG, ADMIN
- Shri Deepak Kumar Yadav, SG, ADMIN
- Shri Yogeshwar Sharma, SG, ADMIN
- Shri Sanket Ramesh Deshmukh, SG, ADMIN
- Shri Radhakrushna Nandi, SG, ADMIN
- Shri Devendra Kumar, SG, ADMIN
- Shri Amit Singh Bhadoria, SG, ADMIN
- Shri Shyam Singh, SG, ADMIN
- Shri Arjun Rawal, SG, ADMIN
- Shri Ashish Shankhwal, SG, ADMIN
- Shri Chandra Singh Meena, SG, ADMIN
- Shri Shibu B., SG, ADMIN
- Shri Deepak Ninama, SG, ADMIN
- Shri Avinash Palahia, SG, ADMIN
- Shri Abhishek Kumar Bajpai, SG, ADMIN
- Shri Sumit Roy, SG, ADMIN
- Shri Jitendra Kumre, SG, ADMIN
- Shri Vishal Parihar, SG, ADMIN
- Shri Ashok Singh Lodhee Rajpoot, SG, ADMIN
- Shri Jaydeep Thakur, SG, ADMIN
- Shri Prakash Choudhary, SG, ADMIN
- Shri Dornale Chandrakant Shivaji, SG, ADMIN
- Shri Ashish Verma, SG, ADMIN
- Smt. Nitika Kadyan, Work Astt./A, LFMD

N.24: Superannuations

The following RRCAT colleagues retired during January to June 2019. The RRCAT family wishes them a happy and healthy post-retirement life.

- Dr. P.A. Naik, DS,
  DoJ: 01.08.1982, DoR: 31.03.2019.
- Shri Satish Chandra Joshi, DS,
  DoJ: 31.07.1982, DoR: 30.06.2019.
- Shri Pradeep Kumar Kush, OS, TDSG
  DoJ: 01.08.1984, DoR: 28.02.2019.
- Shri R. Banwari, OS, PPSD
  DoJ: 01.08.1984, DoR: 30.06.2019.
- Shri R.S. Shinde, OS, AMTD
  DoJ: 28.04.1988, DoR: 30.04.2019.
- Shri A.S. Joshi, SOH, LTD
  DoJ: 01.08.1984, DoR: 31.05.2019.
- Shri Paritosh Kumar Shukla, SOG, FSOSS
  DoJ: 25.11.1991, DoR: 31.05.2019.
- Dr. Kunwar Singh Bartwal, SOG, LFMD
  DoJ: 16.09.1993, DoR: 31.03.2019.
- Shri Mahipal Prasad, SOF, CSD
  DoJ: 30.12.1983, DoR: 30.06.2019.
- Shri Hargovind Singh, SOC, RFSD
  DoJ: 18.01.1990, DoR: 28.02.2019.
- Shri P.K. Kulshreshtha, SAG, AMTD
  DoJ: 12.09.1983, DoR: 30.06.2019.
- Shri T.G. Pandit, SAF, APSD
  DoJ: 01.06.1988, DoR: 31.01.2019.
- Shri D.K. Agrawal, SAF, LTD
  DoJ: 19.07.1990, DoR: 30.06.2019.
- Shri G.R. Nair, Tech Sup/B(Drg), LCDFS
  DoJ: 01.03.1982, DoR: 28.02.2019.
- Shri R.K. Sharma, Tech Sup/A(Drg), IOD
  DoJ: 10.11.1982, DoR: 30.06.2019.
- Shri S. Sarkar, Foreman/C, UHVTS
  DoJ: 17.03.1982, DoR: 30.06.2019.
- Shri K.H. Modi, Foreman/C, LTD
  DoJ: 24.03.1983, DoR: 31.03.2019.
- Shri A.A. Saiyed, Sr.Techn/H, CSD
  DoJ: 09.03.1989, DoR: 31.05.2019.
- Shri Manak Ram, Sr.Techn/H, CSD
  DoJ: 28.09.1990, DoR: 30.06.2019.
- Shri R.P. Tiwari, Sr.Techn/H, CSD
  DoJ: 11.05.1988, DoR: 31.01.2019.
- Shri Dariyav Singh, Dr.Gr.I, LCID
  DoJ: 11.08.1995, DoR: 31.01.2019.
- Shri Bheru Singh, Dr.Gr.I, IOD
  DoJ: 18.10.1995, DoR: 31.03.2019.

Dr. Prasad Anant Naik, Distinguished Scientist and Director, RRCAT, superannuated on 31st March 2019 after a meritorious service of 37 years in the Department of Atomic Energy. He led the Centre, as Director, from August 01, 2016 to March 31, 2019. As an internationally known laser scientist, Dr. Naik made outstanding contributions in the fields of laser plasma interaction, high-power lasers, capillary discharge plasma, plasma diagnostics systems, x-ray laser etc. He received B.Sc. degree in 1979 from University of Mumbai and M.Sc. (Physics) degree in 1981 from IIT, Bombay. Dr. Naik graduated from the 25th Batch of BARC Training School in 1982 and was awarded Homi Bhabha Prize and Gold Medal. Dr. Naik joined Laser Division of BARC in 1982, and moved to RRCAT in the year 1990. He was awarded Ph.D. degree by University of Mumbai in 1992. During 1993 to 1995, he was "NSERC Canada International Fellow" at University of Alberta, Edmonton, Canada. At RRCAT, he contributed in development of high-power laser chains and diagnostics for investigating various processes in laser-plasma interaction. He has more than 550 research publications to his credit of which 177 are published in peer-reviewed journals. He was awarded Homi Bhabha Science & Technology Award by DAE in 2002. In addition, his group was awarded the Group Achievement Award four times in 2010, 2011, 2012 and 2015. He was awarded Distinguished Faculty Award in 2015 by Homi Bhabha National Institute (HBNI). RRCAT wishes Dr. Naik and his family a very fruitful, happy and fulfilling retired life.

Shri Satish Chandra Joshi, Distinguished Scientist and Director, RRCAT, superannuated on June 30, 2019 after a meritorious service of 37 years in the Department of Atomic Energy. He led the Centre, as Director, from April 1 to June 30, 2019. Shri Joshi completed degree in Mechanical Engineering from the Government Engineering College, Ujjain in 1981. He graduated from the 25th Batch of BARC Training School in 1982. At BARC, he worked in the area of design and development of cryogenics systems and moved to RRCAT in 1986. Subsequently, he acquired MBA degree from the Institute of Management Studies, Devi Ahilya Vishwa Vidyalaya, Indore. At RRCAT, Shri Joshi steered various important projects which include the indigenous development of cryorefrigerator, turbo molecular pumps, UHV devices, development of superconducting cavities testing at 2 K etc. and played a pivotal role in setting up of infrastructure facilities for super conducting radio frequency cavities fabrication, processing and characterization at low temperatures at RRCAT. He spearheaded the programme for the development of the high-power pulsed proton accelerator for spallation neutron source. He was a Visiting Scientist at High Energy Accelerator Organization, KEK, Japan during 2000-2001. Several Group Achievement Awards of DAE have been conferred upon him and his team in recognition of the important contributions to the ongoing programmes of DAE. RRCAT wishes Shri Joshi and his family a very fruitful, happy and fulfilling retired life.

Shri Pradeep Kumar Kush, Outstanding Scientist and Director, Technology Development and Support Group, superannuated on February 28, 2019 after a meritorious service of 35 years in the Department of Atomic Energy. He graduated from 27th batch of BARC Training School in 1984 and joined BARC. He moved to RRCAT in May 1986, where he led the cryogenics engineering activities. His major achievements include indigenous development of helium liquefier in 2010, without using any imported component for the first time in the country. Earlier he had also carried out the indigenous development of 30 K and 10 K cryocoolers, several of which are being used by different users. His latest work involved establishing cryogenic facility to characterize SCRF cavities below 2 K. He also took part in the cryogenic commissioning of LHC at CERN, Geneva, Switzerland during 2007. He has authored more than 150 research papers in peer reviewed journals and international conferences. Shri Kush received the prestigious Prof. R Sirininvasan award for low temperature physics/cryogenics in 2011. He was conferred lifetime achievement award by Indian Cryogenic Council in January 2019. RRCAT wishes Shri Kush and his family a very fruitful, happy and fulfilling retired life.

Shri R. Banwari, Outstanding Scientist and Associate Director, Electron Accelerator Group, superannuated on June 30, 2019 after a meritorious service of 35 years in the Department of Atomic Energy. He completed degree in Electrical Engineering from Madan Mohan Malviya Engineering College, Gorakhpur in 1983. He graduated from 27th batch of BARC Training School in 1984 and joined Technical Physics and Prototype Engineering Division, BARC. He shifted to RRCAT in March 1986, where he worked extensively towards the design and development of high voltage power supplies for soft x-ray sources, rotating anode x-ray generators and DC accelerators, along with floating power supplies for their filament heaters. Shri Banwari obtained M. Tech. degree in Electrical

Engineering from Indian Institute of Technology, Kanpur with specialization in Power Electronics and High Voltage Engineering. During the year 2012 to 2017, Shri Banwari was on deputation to Directorate of Purchase and Stores, DAE and worked as Regional Director (P&S), Indore Regional Purchase & Stores Unit, where he brought about several changes for improving its performance and efficiency. In 2017, he became Associate Director, EAG & Head, PPSD. RRCAT wishes Shri Banwari and his family a very fruitful, happy and fulfilling retired life.

Shri R. S. Shinde, Outstanding Scientist and Head, Accelerator Magnet Technology Division, superannuated on April 30, 2019 after a meritorious service of 31 years in the Department of Atomic Energy. He obtained M. Tech degree from Indian Institute of Technology, Kanpur in 1986 and served in various industries for two years before joining RRCAT in 1988. He made important contribution in the development of pulsed magnets and fast current transformers for Indus accelerators. He was also involved in the development of anisotropic strontium ferrite magnets for sputter ion pumps, Penning gauges and magnetic coupling/bearing, fast switching ferrites for magnetic pulse compressors. He played a key role in indigenous development of 60 kW, 505.8 MHz high power circulator for RF system of Indus-2. He developed and demonstrated a superconducting levitated carriage as a National Science Day exhibit. He was a recipient of DAE Group Achievement awards, Magnetics Society of India Award in 1996 & 1998, International lifetime achievement in Magnetic Engineering Award in 2017, Bharat Jyoti Award in 2017, Best Citizen of India Award in 2018, Bharat Ratna Dr APJ Abdul Kalam Excellence Award in 2018 and Insmart Lifetime Achievement Award in 2019. RRCAT wishes Shri Shinde and his family a very fruitful, happy and fulfilling retired life.

Shri A.S. Joshi, Scientific Officer/H and Head, Advanced Lasers and Optics Division, superannuated on May 31, 2019 after a meritorious service of 35 years in the Department of Atomic Energy. He received M. Sc. in Physics from the Indian Institute of Technology Bombay, Mumbai. He graduated from 27th batch of BARC Training School in 1984 and joined Laser Division, BARC, where he worked on design and development of high energy, high power lasers for experiments in plasma physics. He moved to RRCAT in 1991, where he was actively involved in the development of the Nd:glass laser chain for experiments in laser generated plasma. He also contributed to the development of large sized high damage threshold special optics and Nd-doped phosphate laser glass for high energy high power lasers in collaboration with CGCRI, Kolkata. He initiated a project for developing kJ-class high energy laser using indigenized laser glass. Shri Joshi has published 47 articles in peer reviewed journals and 90 articles in conferences. Shri Joshi was a member of the team which received the Group Achievement Award for the year 2013. RRCAT wishes Shri Joshi and his family a very fruitful, happy and fulfilling retired life.

Shri Paritosh Kumar Shukla, Scientific Officer/G, Fibre Sensors & Optical Spectroscopy Section superannuated on May 31, 2019 after a meritorious service of 28 years in the Department of Atomic Energy. Shri Shukla, M. Sc. (Physics), joined RRCAT in November 1991. He designed and developed modified Mach-Zhender interferometer and reversible shear interferometer and estimated beam qualities of copper vapour laser, dye laser, and master oscillator power amplifier chain of copper vapour laser. He designed and developed a flowing dye-cell and performed its detailed flow analysis to optimize beam parameters of the tunable dye laser. He also demonstrated a novel pulse-stretching scheme on copper vapour laser. Shri Shukla has published many papers in journals and conferences, and a few book-chapters. RRCAT wishes Shri Shukla and his family a very fruitful, happy and fulfilling retired life.

Dr. Kunwar Singh Bartwal, Scientific Officer/G and Head, Optical Composite Materials Laboratory superannuated on March 31, 2019 after a meritorious service of 26 years in the Department of Atomic Energy. He completed his Ph. D. from Banaras Hindu University, Varanasi, in the area of metal to insulator transition in Ti-S-Se crystal systems. He worked for three years at National Physical Laboratory (NPL), New Delhi. He joined RRCAT in September 1993, where he was one of the members who established facilities for melt growth technique and grew crystals such as pure and doped lithium niobate, pure and doped lithium tetra borate, lead tetraborate, etc. for nonlinear optical and thermo-luminescence applications. He was Brain Pool Fellow at KRICT, Deajon, South Korea during 2006-2008, where he worked on development of visible phosphor materials. In the recent past he worked on synthesis and characterization of nanomaterials for optical applications. Several students have completed Ph. D. and M. Tech. projects under his guidance. RRCAT wishes Dr. Bartwal and his family a very fruitful, happy and fulfilling retired life.