

## **BIO-DATA**

**Name:** Dr. MONIKA KHETARPAL  
**Father's Name:** Late Sh.S.K.Khetarpal  
**Date of Birth:** 27.05.1972  
**Official Address:** Government M S College for Women  
Bikaner  
**e-mail:** [drmonikaphy7@gmail.com](mailto:drmonikaphy7@gmail.com)  
**Qualification:** Ph.D  
**Date of Appointment:** 2.11.1995  
**Present Status:** HOD and Associate Professor  
**Department:** Physics

### **Teaching Experience:**

1. Under Graduate: 26 years
2. Post Graduate: 22 years

**Key Area of Research:** Condensed Matter Physics

**MPhil Dissertation supervised:** 16

## **RESEARCH PUBLICATIONS**

1. Structure and vibrational dynamics of Multi-component Chalcogenide glasses K.C.Jain, M.Khetarpal, D.Bhandari and N.S.Saxena, Materials Science Forum 1996 **223-224** 87-90.
2. Collective Excitations and Thermodynamic Properties of liquid Selenium: A transition from short chain Polymer to Real Polymer system Monika Khetarpal, Deepika Bhandari and N.S.Saxena phys.stat.sol.(b) 1998 **209** 29.
3. Theoretical study of structure and vibrational dynamics of amorphous carbon and sulphur K.C.Jain, Monika Khetarpal, Anuradha Gupta and N.S.Saxena Indian J.Pure and Applied Physics 1998 **36** 439- 443.
4. Memory effect and dynamical correlations in liquid selenium Monika Khetarpal, Deepika Bhandari and N.S.Saxena Physica B 1998 **254** 52-56.
5. Compositional dependence of sound velocity and elastic moduli of amorphous  $\text{Se}_{1-x}\text{Ge}_x$  systems: Comparative study with percolation theory Monika Khetarpal, Deepika Bhandari and N.S.Saxena Materials science and Engineering A 1999 **266** 310- 315.

## **PAPERS IN CONFERENCE PROCEEDINGS:**

1. Theoretical study of dynamical structure of amorphous selenium Monika Khetarpal, Deepika Bhandari and N.S.Saxena The physics of disordered Materials NISCOM, New Delhi 51-55 1997.

## **INTERNATIONAL CONFERENCE ATTENDED**

1. International conference on the Physics of Disordered Materials organized by University of Rajasthan, Jaipur on January 27-29, 1997.
2. International conference on Physics for World organized by University of Rajasthan, Jaipur and Engineering college, Bikaner on December 2-4, 2005.
3. International conference on emerging frontiers and challenges in Radiation Biology organized by Department of Zoology, Govt.Dungar College in collaboration with M.G.S University, Bikaner on January 24-25, 2012.

**Presented Paper:** Theoretical Study of Vibrational Dynamics of Amorphous  $\text{Se}_{0.60}\text{Te}_{0.40}$ .

4. International conference on Recent Trends in Advanced Materials organized by Department of Physics, Mohanlal Sukhadia University, Udaipur on July 15, 2021.

**Presented paper:** Sizable Band Gap in Metallic Single Walled Carbon Nanotubes

## **INTERNATIONAL AND NATIONAL SEMINAR /SYMPOSIUM**

1. 81<sup>st</sup> session of the Indian science congress association organized by Rajasthan University, Jaipur on January 8, 1994.
2. National Seminar On Disordered Materials organized by University of Rajasthan on October 24-26, 1994.

**Presented Paper:** Theoretical Study of Atomic Structure and Vibrational Dynamics of Liquid Tellurium

3. DAE Solid State Physics Symposium organized by University of Rajasthan, on December 27-31, 1994.
4. Seminar On Role Of Women in Communal Harmony And National Integration organized by All India Women's Conference And Women Cell, on March 8, 2016.
5. International Web symposium on Camel and Disease control organized by BIRC and Govt.Dungar College, Bikaner on June 22,2021

## **FACULTY DEVELOPMENT PROGRAMME**

1. Faculty development programme organized by Entrepreneurship and Management Development institute Jaipur on January 11-23, 1999.
2. Faculty development programme at Pratap Sabhagar, Government Dungar College, Bikaner on January 28, 2013 to February 2, 2013.

## **WORKSHOPS**

1. Workshop on Nano Science and Nano materials organized by Govt. Engineering College, Bikaner on October 19-20, 2015.
2. Microsoft office Specialist Training at Dungar College Bikaner On October 8-12, 2018.
3. COVID-19: Chaos to cure organised by organised by Internal Quality Assurance cell, Govt.Dungar college and BIRC, Bikaner on June 26, 2020.
4. Psycho-social skills of a Good helper: Tackling the COVID pandemic organised by MGNCRE AND BIRC June 26, 2021
5. Role of college Faculty as Teacher, Researcher and Administrator organised by Internal Quality Assurance cell, Govt. Dungar College, Bikaner on June 27, 2020.