

Format for Detailed Profile

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| Name: | Prof. (Dr.) B.C. Chauhan |
| Designation: | Dean , School of Physical & Material Sciences Head , Department of Physics & Astronomical Science |
| Contact Details: | 094184 72694, 01892 237285, 88, 89—Ext. 407 |
| Academic Qualification: | M.Phil., PhD, PDF (Technical Univ. Lisbon) |
| Positions Held: | List enclosed in CV |
| Specialisation: | Neutrino Physics, Holography, Ancient History and Philosophy of Science |
| Research Interest: | Low Energy Solar Neutrinos, Lepton Flavour Mixing, QLC, Sterile Neutrinos and Dark Matter, Quantum Mechanics of Neutrino Oscillations, Holographic Principle , Geothermal Energy & Earthquake Science, History & Philosophy of Science, Indian Time Reckoning |
| Publications: | List enclosed |
| Research Projects Completed/Ongoing: | List enclosed in CV |
| MPhil/PhD Supervised/Supervising: | List enclosed in CV |
| Participation in Seminars/Conferences: | List enclosed in CV |
| Membership of Learned Societies/ Professional Bodies: | Indian Association of Physics Teachers (IAPT), Indian Physics Association (IPA), Vigyan Bharati (ViBha), Himachal Science Congress Association. |
| Awards & Honours Received: | List enclosed in CV |
| Others: | List enclosed in CV |

Curriculum Vitae (as on January 2018)

Prof. Bhag Chand CHAUHAN

Father's Name: Sh. Tula Ram Chauhan

Date of Birth: 2nd June N/H Sixty Nine (02.06.69)

Place of Birth: Chhamanda, PO & Sub-Tehsil Nihri, Distt. Mandi (HP)

Permanent Address: Village Chhamanda, PO & Sub-Tehsil Nihri, Distt. Mandi (HP)

Professional Address: Professor of Physics

Department of Physics and Astronomical Science

Central University of Himachal Pradesh

Dharamshala, Distt. Kangra (HP) INDIA-176215.

e-mail: bcawake@gmail.com

Visiting Associate

Inter-University Centre for Astronomy & Astrophysics (IUCAA), Pune (An Autonomous Body of UGC).

e-mail: chauhan@associate.iucaa.in

Educational Qualifications: M. Sc., M. Phil., Ph.D.

PDF (Technical University Lisbon, PORTUGAL: 5 Years).

- **Matric:** 1985 (71%), Govt. High School Nihri, Mandi, HP.
- **B.Sc. (N/M):** 1989 (77%), Govt. P.G. College Mandi, HP.
- **M. Sc. (Physics):** 1991 (65%) HP University, Shimla, HP.
- **M. Phil. (High Energy Physics):** 1994 (69%) HP Univ., Shimla, HP.
- **Ph.D. (Solar Neutrinos):** 2001, HP University, Shimla, HP.
- **PDF (Neutrino Astrophysics):** IST-Technical Univ. Lisbon (2001-2006).

Additional Examinations/ Qualifications

- National Graduate Physics Examination (NGPE) held by Indian Association of Physics Teachers (IAPT) in 1989 at B.Sc. level.
- National level Education Test (NET) held by University Grants Commission (UGC) in 1992, for Lectureship in the Indian Universities/ Colleges.

- Diploma in Yoga-Studies: HP University (1994).
- Certificate Course in French Language: HP University (1992).
- Principal Yog Teacher, Patanjali Yogpeeth, Haridwar.

Honors, Awards and Distinctions

- **Chief-Guest & Guest of Honor** in several Institutional and Social Functions & Programmes with a wide Media Coverage.
- **Resource Person** in several educational training programmes.
- **Chaired Sessions** in several national conferences and workshops of the research areas.
- **Convener of Writers' Council**, Th. Jagdev Chand Smriti Shodh Sansthan, Neri, Hamirpur.
- Nominated for **Global Teacher Role Model Award** by MVLA Trust Mumbai during Global Teachers Convention 2016.
- Nominated for **Best Educationist Award** by International Institute of Education and Management, 2015.
- Nominated for **The Glory of India Gold Medal** by India International Friendship Society, 2014.
- Nominated for **Bharat Jyoti Award** by India International Friendship Society, 2013.
- Nominated for **Rajeev Gandhi Excellence Award** 2013 by International Business Council, New Delhi.
- Awarded **Bharat Shiksha Ratan Award 2012** by Global Society for Health & Educational Growth, at Patel Bhawan, New Delhi.
- **Visiting Associateship** by Inter-University Centre for Astronomy & Astrophysics (IUCAA) Pune since August 2010.
- **Editorial Board (03)**: Journal of Nuclear Physics, Material Science, Radiation and Applications; Journal of Geology and Geography; Oriental Journal of Physical Sciences.
- **Referee** of International Journal for Theoretical Physics (IJPT).
- **Honored** by 'Karsog Welfare Association of Retired Employees' as an **Intellectual & a dedicated Social Worker** on 17th December 2010.
- **Honored** by 'Karsog Kalyan Samiti at Shimla' for **International Recognition** in the field of Research in Physics on 18th April 2010.
- Award of **Post-Doctoral Fellowship** offered by Ministry of Science & Technology (FCT), Government of Portugal in Sept., 2004.

- Award of **Post-Doctoral Fellowship** offered by Ministry of Science & Technology (FCT), Government of Portugal in Sept., 2001.
- Award of **Research Associateship (RA)** by CTS, I.I.T. Kharagpur in August 2001.
- Nomination as an **International Man of the Year** (May, 2001) by International Biographical Centre Cambridge (IBC) England.
- Honor of IBC's **21st Century Award for Achievement** (Feb., 2001).
- Honor of IBC's **2000 Outstanding Intellectuals of 21st Century** (Jan. 2001).
- Honor of IBC's **2000 Outstanding Scientists of 21st Century** (Dec. 2000).
- Honor of Nomination as an **International Personality of the Year** by IBC (Oct. 2000).
- Honor of IBC's **20th Century Award for Achievement** (Aug., 2000).
- Honor of IBC's **2000 Outstanding Intellectuals of 20th Century** (July 2000).
- **Biography published** from U.S.A., in the Millennium Edition (Ed. 2000) of the "Marquis Who's Who in the World".
- **Topped in** the Merit list of **State College Cadre Commission'97**, conducted by the HP Public Service Commission (HPPSC).
- **President**, HP University NET Qualified Student Association (1996-97).
- **Publisher & Editor-In-Chief**, 1st Competition Magazine "Him Competition Vision" launched from Himachal Pradesh (1995-96).
- Nominated by **MHRD, Govt. of India** to **United Kingdom (U.K.)** for Ph. D. under **Commonwealth Fellowship** Scheme in 1995.
- **HPU Gold Medal** in Certificate course in French Language in 1993.
- **Awards of JRF (1992) & SRF (1994)** of University Grants Commission (UGC) for pursuing M.Phil and PhD degrees.
- **Got distinction** in National Graduate Physics Examination (NGPE) at B.Sc. level (1989).
- **Co-ordinator, Steering Committee for NAAC** accreditation of Govt. College Karsog, Mandi (Peer Team Visit during May 4-5, 2011.)
- **Was Associated** with Additional Director of Education for project under Nuclear Science & Technology.

Responsibilities (Only Selected)

Institutional:

- **Dean**, School of Physical & Material Sciences, CUHP (17th July 2017....)

- **Head**, Department of Physics & Astronomical Science, CUHP (Since 19th April 2015 to April 2018).
- **Planning & Development Officer**, CUHP.
- **Member Secretary**, Planning and Development Board, CUHP.
- **Hony. Director**, Community Development Cell, CUHP.
- **Nodal Officer**, Unnat Bharat Abhiyan, CUHP.
- **Nodal Officer**, Swachh Bharat Abhiyan, CUHP.
- **Convener/ Member** of several administrative and Managerial committees of CUHP; including **Academic Council; School Board; Board of Studies**.
- **Govt. College Karsog: Officiated as Principal** (Time to Time), **Incharge**, Academics and Student Welfare (2010-2012), **President**, Save Energy Club; **Convener**, **UGC** Funds (75 Lacs.) Utilization Committee (2010-12); **Co-ordinator**, Steering Committee of NAAC Peer Team Visit at Govt. College Karsog (June 2009-11); **In-charge**, **UGC** Network Resource Centre (2010-12); **Head, Physics Department** (1997-2001; Dec., 2006 -2012); **Co-ordinator**, **IT Center** (2007-12); **President**, '**Wonder Science Club**' (1999-2000; 2007- 2011); **.Editor**, '**Science Section**' of Kamaksha Magazine (2007-2011); **Team Leader** for Developing, Designing & Launching of **College Website: www.gckarsog.org**; **Executive Member**, **Internal Quality Assurance Cell (IQAC)** (2011-12); **Active Member**: Student Council and Grievance Committee, College Advisory Body, Library Committee, Hostel Committee, etc; **Convener/ Member** of several important functioning Committees in the college; **Co-ordinator**, **Old Students' Association (OSA)** (2009-12); **Staff Secretary**, **Govt. College Karsog**, Mandi (1999-2001).
- **Co-ordinator**, **IGNOU Study Center**, Govt. College Karsog (June 2008-2012).
- **Member**, **Enquiry Committee(s)** and Inspection Team (s) of HP Govt. time to time.
- **Senior Research Fellow (SRF)**, University Grants Commission, INDIA (1995-97).
- **Junior Research Fellow (JRF)**, University Grants Commission, INDIA (1993-95).
- **Student Editor**, '**Science Section**' of ``Vipasha'', Govt. PG College Mandi, H.P. (1988-89).
- **Worked as Sr. Supdt.**, Centre Supdt., Dy. Supdt. in the Annual UG and PG Exams of various Universities, Centre Supdt./ Centre In charge in TEE of IGNOU; CUHP.
- **External Examiner, Paper Setter & Evaluator** for Annual/ Entrance Exams of various universities.
- **Observer** for IGNOU, FEAT Exams of CUHP.

Social:

- **Principal Yog Teacher**, Patanjali Yog Peeth Haridwar, Utrakhand (INDIA).
- **Vice-President**, Himachal Govt. College Teachers Association (HGCTA Local Unit: 2010-12).
- **Co-ordinator**, Organization of Govt. Officers, Bharat Swabhiman Trust, Haridwar, Mandi District, HP (2010-12).
- **Co-ordinator**, Indian Foundation for Vedic Sciences (IFFVS) for North-West India (2007-...).
- **Co-ordinator**, IFFVS for Portugal (2005-2006).
- **Tehsil Prabhari** (President), Patanjali Yog Samiti, Karsog, Mandi (HP) (2010-2012).
- **Vijyana Bharati**, Shimla, [Himachal Chapter].
- **Chief-Advisor**, 'Nihri Kshetra Jevik Krishi Kisan Sangh', Nihri, Mandi (H.P.).
- **Member**, **Baal-Vridha Ashram** Talyahar, Mandi (HP) (2008-...).
- **President, Amity Club** – Class-I Gazetted Officers group in Karsog, Mandi (1999-2001).

Research

Publications (Summary):

- **54** Research Papers (Journals of repute with high Impact Factors)
- **30** Abstracts
- **18** General Articles
- **01** Monograph: An Essence of Hinduism (2006), dedicated to NRI Hindus Diaspora.
- **1st** Competition Magazine of Himachal Pradesh (1995-96): '**Him Competition Vision**'.

Talks Telecasted

1. Vedic Civilization and Science

(Telecasted by the national TV Channel of Portugal in October 2006.)

2. Bharat Upgrah Ke Kshetar Mein

(Talk aired through All India Radio Shimla in June 1996.)

Research Projects

Completed: 01

1. UGC-Major Research Project (2009-2011) as Co-PI.

Ongoing since 2015: 02

1. UGC-Major Research Project as PI.

Title: Phenomenological Studies on the Role of Neutrinos in Astrophysics and Cosmology .

2. Project under Unnat Bharat Abhiyan, since March, 2017.

Lectures/ Talks/Paper Presentation (only selected)

● International Level:

- **Talk:** "Light Sterile Neutrinos and Dark sector of Universe." International Science Congress (1-2 May 2015) at Maharaja Agrsen University, **Baddi, SOLAN, INDIA.**
- **Talk:** "Spectral predictions for KamLAND solar mode." 2nd Scandinavian Neutrino Workshop (2-6 May, 2006) at AlbaNova University Center, **Stockholm, SWEDEN.**
- **Talk:** "Subdominant effects in low energy solar neutrino data." 2nd Xmas Workshop of CFTP (Dec. 2005) in **Lisbon, PORTUGAL.**
- **Talk:** "Time Variations and Low Energy Solar Neutrinos." International conference on Frontiers in Contemporary Physics-III (2005) in Vanderbilt University, **Nashville, USA.**
- **Talk:** "Model independent analysis of solar neutrino data." 1st Xmas Workshop of CFTP (Dec. 2004) in **Lisbon, PORTUGAL.**
- **Seminar:** "Solar Neutrino Flux Variations and Solar Magnetic Fields." June'2004 at CFIF-Instituto Superior Tecnico, Technical University **Lisbon, PORTUGAL.**
- **Poster:** "Time Modulations and Sterile Neutrinos." International Conference of Neutrino Physics and Astrophysics (Neutrino'2004) in College De France, **Paris, FRANCE.**
- **Talk:** "KamLAND and solar antineutrino spectrum." International Conference of Non Accelerator New Physics (NANP'03) in **Dubna, RUSSIA.**
- **Poster:** "MSW constraints on the matter density profiles in the solar interior." International Conference of Neutrino Physics and Astrophysics (Neutrino'2002) in Technical University **Munich, GERMANY.**

- **National Level:**

- **Invited Lecture:** *National Conference on Recent Trends in Experimental and Theoretical Physics (NCRTEP - 2017)*, 'Neutrino Dark Matter' at **Sri Sai University, Palampur** (23-24th Nov. 2017).
- **Panel Discussion:** Conference on Science, Religion and World Peace, Dharamshala (4th Nov. 2017).
- **Talk:** National Seminar on Lok-Gathaon Me Itihaas, Th. Jagdev Chand Shodh Sansthan, **Neri, Hamirpur** (2nd Oct. 4th Oct. 2015).
- **Invited DST-Inspire Lecture:** State Children Science Conclave at **SCERT Solan** (8th September, 2015).
- **Talk:** NEEM Seminar on 'Quark Lepton Complementarity and Model Predictions', in **IUCAA, Pune** (28th July 2015).
- **Invited Lecture:** "Energy Needs, Geothermal Energy and Environmental Issues" in National Conference on 'Emerging Scenario & Future Challenges-III' at Ballabh **PG College Mandi** (11.04.2015-12.04.2015).
- **Invited Lecture:** National Seminar on Environmental Degradation and Natural Resource Management in Western Himalayas at **Govt. College Nalagarh, Solan** (20.02.2015-21.02.2015).
- **Invited Lecture:** 'Low Energy Solar Neutrinos and Search for Dark Matter Candidate' in National workshop on Light from Dark Side of Universe at Banaras Hindu University (**BHU, Varanasi (UP)**) (17-20, March 2015).
- **Invited Lecture:** "Solar Neutrinos- Looking Forward"; One Day Workshop on Nuclear Structure and Astrophysics: Looking Forward at MAU, Baddi (11th April 2014).
- **Invited Lecture:** 'Harnessing Geothermal Energy in India' in National Seminar at **Sri Sai University, Palampur** (18th Jan. 2014).
- **Lecture:** 'Geothermal Energy: A Natural Resource for Sustainable Development', at National Seminar on Natural Resource Management: Present needs and our Common Future at **Maharaja Agrasen University, Baddi** (2014).
- **Invited Lecture:** 'Geothermal Energy' at Academic Staff College **HPU Shimla** (05.05.2014).
- **Invited Lecture:** 'Radiation Hazards' at Academic Staff College **HPU Shimla** (05.05.2014).
- **Talk:** 'Harnessing Geothermal Energy: Earthquake Disaster Free Himachal' in 1st Himachal Science Congress, **Hotel Peterhoff Shimla** (15th October 2014).

- **Poster:** 'Can Geothermal Power production help in Earthquake Disaster management?' at the National Workshop on Status of natural Hazards in HP at **CUHP TAB Shahpur** (6-8th Nov. 2014).
- **Talk:** "Change the Attitude & Save the Environment": A Short Term Course on Environmental Hazards at National Institute of Technology (**NIT Hamirpur, INDIA**) (09-13 July, 2007).
- **Lecture:** "Nuclear Hazards" In 'A Short Term Course on Environmental Hazards' at National Institute of Technology (**NIT Hamirpur, INDIA**) (09-13 July, 2007).
- **Seminar:** 'Solar Neutrinos and Time Modulations' at Indian Institute of Science Education and Research (**IISER Kolkata, INDIA**) (16th May, 2007).
- **Seminar:** 'Solar Neutrinos: Oscillations and Flux Variations' at Center for Theoretical Studies (CTS), Indian Institute of Technology (**IIT Kharagpur, INDIA**) (25th Sept., 2007).
- **Seminar:** 'Neutrino Technology and its Implications.' at Department of Applied Sciences, National Institute of Technology (**NIT Hamirpur, INDIA**) (9th July, 2007).
- **Seminar:** 'Solar Neutrinos: Oscillations and Magnetic Moment.' at Indian Institute of Technology (**IIT Kanpur, INDIA**) (17th Nov., 2006).
- **Seminar:** 'Time modulations and predictions for BOREXINO.' at Department of Physics, Himachal Pradesh University (**HPU Shimla, INDIA**) (Oct. 2004).
- **Seminar:** 'Time modulations in solar neutrino data.' at Department of Physics, Punjab University Chandigarh (**PU, INDIA**) (Oct. 2004).
- **Talk:** 'RSFP constraints on solar magnetic fields from solar neutrino observations.' XIII th DAE high energy physics symposium in **Punjab University Chandigarh, INDIA** (Dec., 1998 - Jan., 1999).
- **Talk:** 'Dark Matter Halo: A Fluid Model' in IVth Young Astronomer's Meet (YAM'96) in Indian Institute of Astrophysics (**IIA Bangalore, INDIA**).
- **Talk:** 'Implications of solar neutrino experiments for magnetic moment solution of solar neutrino problem.' XI th DAE high energy physics symposium in **Vishva-Bharti University Shantiniketan, INDIA** (Dec. 1994 - Jan. 1995).
- **Talk:** 'Ancient India: The light House of Knowledge' delivered at INACS09 Conference on **Delhi University** (27th November 2009).
- **Regional Level:**
- **Invited Lecture:** "Indian Contribution to Physics and Mathematics"; SCERT, Solan (30th November 2017).

- **Invited Lecture:** “On the Discovery of God Particle”; Govt. College of Excellence Sanjauli (1st Dec. 2017).
- **Invited DST-Inspire Lecture:** during 5-day workshop at Laurent Institute Kathog (7th July 2016).
- **Special Lecture:** On National Science Day celebration function, Dept. of Physics & Astronomical Science, CUHP, 2015.
- **Invited Lecture:** “Bhartiya Kal Ganana ke Vaigyanik Sandarbh” at Th. Jadevchand Shodh Sansthan Neri, Hamirpur.
- **Invited Lecture:** “Electromagnetic Pollution”; SCERT, Solan (13th October 2014).
- **Invited Lecture:** “The God’s Particle”; SCERT, Solan (13th October 2014).
- **Invited Lecture:** “Mass, Matter, and Universe”; Govt. College Solan (14th October 2014).
- **Invited Lecture:** “Neutrino Oscillations”; Workshop on Analytical Aspects of Dynamics (11-17 Nov., 2014), CUHP.
- **Invited Lecture:** “Structures and Dynamics of Elementary Particles”; Workshop on Analytical Aspects of Dynamics (11-17 Nov., 2014), CUHP.
- **Special Lecture:** “Science and Technology in Ancient India”; Colloquium Series of Physics, Dept. of Physics & Astronomical Science, CUHP (2013).
- **Special Lecture:** “Holography as a Fun”; Colloquium Series of Physics, Dept. of Physics & Astronomical Science, CUHP (2013).
- **Popular Talks (Only Selected):**
 - **Talk:** “Nobel Prize in Physics 2015: My Experiences with Nobel Laureates” at CUHP (04.08.2016).
 - **Invited Lecture:** “Scientific Culture in India” at Laureate Institute of Pharmacy, Kathog (07.07.2016).
 - **Invited Lecture:** “Nobel Prize in Physics 2015: On Neutrinos” at MCM DAV College Kangra (March 2016).
 - **Invited Lecture:** “Scientific Tradition in Ancient India” at B.Ed. College Dharamshala, 2016.
 - **Invited Lecture:** “Scientific Basis of Bhartiya Kal Ganana” at Nalanda College of Education, 2016
 - **Invited Lecture:** “Science and Education System in Ancient India” at B.Ed. College Dharamshala, 2015.

- **Invited Lecture:** "Tradition of Sports in India"; at **Workshop at SAI Hostel Dharamshala** (28th Feb. 2015).
- **Special Lecture:** NSS Camp at GSSS, Dughiyari, **Gaggal, Kangra:** Life and Teachings of Sw. Vivekananda (21.11.2014).
- **Invited Lecture:** "Education & Science in Ancient India" at Regional Centre Dharamshala, HPU.
- **Talk:** "Ancient India: The light House of Knowledge"; delivered at INACS09 Conference in Delhi University on 27th November 2009.
- **Invited Lecture:** "Vedic Civilization and Science"; organized by Hindu Community of Portugal for the Youngsters (05.11.2006). (Telecasted by the **National TV Channel** of Portugal.)
- **Invited Lecture:** "India: The Cradle of World Civilizations"; given at the Universidade Lusofona, Portugal (28.10.2006).
- **Invited Lecture:** "Scientific Dating of Janmashtmi, Mahabharat, and Discovery of Dwaraka"; given at Lisbon ISKCON Center, on the eve of Krishna Janmashtmi (16.08.2006).
- **Talk:** "Science in Vedas"; delivered at three days workshop at Sujanpur Tira (HP) on 2nd November 2009.
- **Invited Lecture:** "Science in Ancient India" organized by Sarswati Vidya Mandir Samiti of Karsog on 25th June 2008 (3+).
- **Invited Lecture:** "Vedic Science"; given at Govt. College Kullu, Govt. College Karsog, Sarswati Vidya Mandir Karsog, Govt. Sr. Sec. School Teban, Govt. Sr. Sec. School Karsog.
- **Talk:** "Science, Religion and Truth"; given in the Orientation Course for College and University Lecturers at Academic Staff College, HP University Campus, Shimla (1999).
- **Talk:** "Bharat Upgrah Ke Kshetar Mein" (India in the field of space); aired through 'All India Radio (AIR)' Shimla in June 1996.
- **Invited Lecture:** "AIDS: Prevention is the Cure!" delivered to the Students of Govt. College Karsog on the eve of AIDS day celebration on 22nd December 2008.
- **Talk:** "Journey into Cosmos and back into Matter"; organized at G. C. Karsog for National Science Day Celebration on 6th November 2008.
- **Invited Lecture:** "Science and Reality"; organized by the NSS Students at Govt. College Karsog, Mandi (2000).

Professional Visits, Trainings and Participations (Only selected)

- IUCAA Visit 9-18 January 2018.

- **3rd world Ved Vigyan Samelan** at Deccan College Pune (10th Jan.-13th Jan., 2018).
- **Flying Squad Incharge**, HPTU End Semester Exams (Dec. 2017).
- **Rashtriya Abhyas Varg**, Vijnana Bharti at Bhuvneshwar (9-11th, Dec. 2017).
- **Judge for National Children Science Congress at KV Dharamshala** (26th -27th October, 2017).
- **International Conference** on Science: Emerging Scenario & Future Challenges at Dharamshala (SESFC-2016).
- **One Week FDP** (9th-15th June, 2016) on Emerging Trends of ICT in Higher Education at CUHP.
- **Two Day Workshop** (4th -5th April, 2016) on Experimental Physics at **CUHP**.
- **National Seminar** (29th -30th March 2016) on Skill Development in Higher Education at **CUHP**.
- **Workshop** in Computerization Experiments in Physics (17th -19th March 2016) at **CUHP**.
- **CUHP-IUCAA-DST Sponsored Two Week School** (29th Feb.-12th March, 2016) on Gravitation and Astroparticle Physics at **CUHP**.
- **Workshop** (8th January, 2016) on Open Educational Resource Policy (OER) at **CUHP**.
- **Workshop** in Physics Education (16th -18th October 2016) at **CUHP**.
- **National Seminar** on Lok-Gathaon Me Itihaas (2nd Oct.-4th Oct. 2015), Th. Jagdev Chand Shodh Sansthan, **Neri, Hamirpur**.
- **Associate Visit** (18th July-4th August 2015) **IUCAA, Pune**.
- **National Conference** on 'Emerging Scenario & Future Challenges-III' (11th -12th April, 2015) at Ballabh **PG College Mandi**.
- **International Science Congress** (1st -2nd May 2015) at Maharaja Agrsen University (**MAU**) **Baddi, SOLAN, INDIA**.
- **National Conference** on 'Emerging Scenario & Future Challenges-III' (11th-12th April 2015) at Ballabh **PG College Mandi (HP)**.
- **National Seminar** on Environmental Degradation and Natural Resource Management in Western Himalayas (20th -21st Feb.2015) at **Govt. College Nalagarh, Solan**.
- **National Seminar** on Recent Trends on Materials, Energy and Environment (18th Jan. 2014) at **Sri Sai University Palampur**.
- **National Seminar** on Natural Resource Management: Present needs and our Common Future (29th – 30th March 2014) at Maharaja Agrasen University (**MAU**) **Baddi, Solan**.
- **Workshop** on Light from Dark Side of Universe (17th-20th March, 2015) at Banaras Hindu University (**BHU**), **Varanasi (UP)**.

- **National Science Day** celebration function, Dept. Of Physics & Astronomical Science, **CUHP**.
- **One Day Symposium: Bhartiya Kal Ganana ke Vaigyanik Sandarbh** at Th. Jadevchand Shodh Sansthan **Neri, Hamirpur**.
- **One Week Workshop** on Analytical Aspects of Dynamics (11th -17th Nov., 2014), Mathematical Society & Department of Mathematics, **CUHP**: Neutrino Oscillations.
- **National Workshop** on Status of Natural Hazards in Western Himalayas (6-8th Nov. 2014), at **CUHP**.
- **1st Himachal Pradesh Science Congress** (15th October 2014): Role of Science & Technology in Sustainable Development, **Shimla, HP**.
- **Colloquium Series** (28th October 2013) of Physics: **Making of Hologram**; Dept. Of Physics & Astronomical Science, **CUHP**.
- **Colloquium Series of Physics Series** (26th August 2013) of Physics: **Science in Ancient India**; Dept. Of Physics & Astronomical Science, **CUHP**.
- **Refresher Course** in IT (April 2-21, 2012) from UGC-Academic Staff College, **HPU Shimla**.
- **Refresher Course** in Physics (Feb. 6- March 2, 2012) from UGC-Academic Staff College, **JNU New Delhi**.
- **Three Day Workshop** (Nov. 21-23, 2011) on Community Based Disaster Management and Plan at Community Hall, Karsog, Mandi (HP)- Organised by **HIPA, Fairlawns, Shimla-12**.
- **Three days Symposium** (Nov. 2-4, 2009) on Historical Study of Katoch Vansh at **Sujanpur Tira (HP)**.
- **International Conference** (NuGoa09 April 08-14, 2009) of Neutrinos at International Centre Goa, **INDIA**.
- **Visit** (Sept. 19 - 26, 2007) to Center for Theoretical Studies (CTS), Indian Institute of Technology (IIT) Kharagpur, West Bengal, **INDIA**.
- **Visit** (August 21 - 29, 2004) to Theory Division at CERN in Switzerland, **GENEVA**.
- **International School** on Neutrino Physics and Astrophysics (NEUPAST) (Sept. - Oct., 2002) at International Center for Theoretical Physics (ICTP), Trieste, **ITALY**.
- **International summer school** (June-July, 1999) on particle physics at International Center for Theoretical Physics (ICTP), Trieste, **ITALY**.
- **Mini-school** (Feb., 1997) on cosmology in Lucknow University Uttar Pradesh, **INDIA**.
- **INDO-FRENCH school** (Jan.-Feb., 1995) on large scale structures in the universe in **IUCAA, Pune, INDIA**.

- **UGC-IUCAA joint school** (Nov.-Dec., 1994) on large scale structures in the universe in the University of Mysore, INDIA.
- **5th SERC winter school** (Feb., 1994) on nuclear physics in University of Mysore, INDIA.
- **Two day workshop** on 'Teaching, Learning & Evaluation' (4-5th February 2011) at Govt. College Karsog, sponsored by University Grants Commission (**UGC**).
- **Visit** (4th -14th January 2011) to Inter University Centre for Astronomy & Astrophysics (**IUCAA**).
- **One-Day workshop** on 'The Role of Open Distance Learning in Knowledge Building Society' (10th Sept. 2010) at GC Karsog, Sponsored by **IGNOU**.
- **One day workshop** (March 26, 2009) on **National Mission on Education** through ICT held in HP University Shimla.
- **Seminars** during a short visit (Sept. 19 - 26, 2007) to Center for Theoretical Studies (CTS), Indian Institute of Technology (**IIT**) **Kharagpur**, West Bengal, INDIA.
- **Indian Association of Physics Teachers (IAPT) Convention & Symposium** (27-29 Oct., 2007), Himachal Pradesh University (**HPU**) **Shimla**, INDIA.
- **A Short Term Course** on Environmental Hazards (09-13 July, 2007), National Institute of Technology (**NIT**) **Hamirpur**, INDIA.
- **UGC-Academic Staff College** workshop (March 2007) on "Design and Development of Physics Curriculum for Excellence", Himachal Pradesh University (HPU) Shimla,INDIA.
- **Seminars** during a short visit (Nov. 17 - 18, 2006) to Physics Department, Indian Institute of Technology (**IIT**) **Kanpur**, Uttar Pradesh, INDIA.
- **2nd Scandinavian Neutrino Workshop** (May 2 - 6, 2006), AlbaNova University Center, Stockholm, **SWEDEN**.
- **2nd Xmas Workshop** of CFTP (Dec. 2005) in Lisbon, **PORTUGAL**.
- **Symposium** in Honour of Gustavo C. Branco (GustavoFest 2005) in Lisbon, **PORTUGAL**.
- **International conference** on Frontiers in Contemporary Physics-III (2005) in Vanderbilt University, Nashville, **USA**.
- **1st Xmas Workshop** of CFTP (Dec. 2004) in Lisbon, **PORTUGAL**.
- **International Conference** of Neutrino Physics and Astrophysics (Neutrino'2004) in College De France, Paris, **FRANCE**.
- **International Conference** of Non Accelerator New Physics (NANP'03) in Dubna, **RUSSIA**.
- **International Conference** of Neutrino Physics and Astrophysics (Neutrino' 2002) in Technical University Munich, **GERMANY**.

- **XIII th DAE high energy physics symposium** (Dec., 1998 - Jan., 1999) in **Punjab University Chandigarh, INDIA.**
- **IVth Young Astronomer's Meet (YAM'96)** in Indian Institute of Astrophysics (**IIA**) **Bangalore, INDIA.**
- **XIth DAE high energy physics symposium** (Dec. 1994 - Jan. 1995) in **Vishva-Bharti University Shantiniketan, INDIA.**

Programmes Organized (Only Selected)

Institutional (as Organizer):

- **USI-CUHP National Conference** at CUHP (8th Nov. – 10th November, 2017).
- **CUHP-IUCAA Two Week School** on Gravitation and Astroparticle Physics at CUHP (29th Feb.-12th March, 2016).
- **World Spiritual Conference** to be held on 14th -16th March, 2012 as International Coordination Committee member, Funded by Dept. of Higher Education, Govt. of Haryana (INDIA).
- **Two-Day Workshop** (24th-25th Dec., 2011): History and Folklores of Temples of Karsog Area.
- **Two-Day Workshop** (4th-5th Feb., 2011): Competence Building: Teaching, Learning & Evaluation and Office Procedure, Funded by UGC.
- **One Day Silver Jubilee Workshop** (10th Sept., 2010): The Role of Open Distance Learning in Building Knowledge Society, Funded by IGNOU.
- **Hindi Divas** (14th Sept., 2010): Popularization of Hindi as the National Language, Funded by IGNOU.
- **Science Function(s)** every year since (1998-2001 and 2006-2010); Funded by State Science, Technology & Environment Department, Shimla (HP).
- **Career Counseling** Programmes time to time.

Social:

We provide good health and educate people of hilly area about their rights, duties and ancient heritage. We do programmes of general scientific awareness and career growth among the masses:

- Arranged various Community Connect Programmes on Energy Saving and environmental cleanliness in the five adopted villages of CUHP.
- Unnat Bharat Abhiyan

- Swachh Bharat Abhiyan
- Several Camps on Yoga and Health awareness.
- International Yoga Day Celebrations.
- Science Popularization Shows to the Secondary level students.
- Programmes on Vedic Science and Ancient Wisdom.
- Organics Farming & other traditional techniques for Agriculture and Horticulture.
- Motivational programmes on Open and Distance Learning targeting to the poor & deprived section of the society in the rural area of HP.

Memberships

Professional:

- Indian Physics Association (IPA).
- Indian Association Physics Teachers (IAPT).
- Vijyana Bharati (Himachal Chapter).
- Him Science Congress Association (HSCA).

Social:

- Baal-Vridh Ashram Talyahar, Mandi (HP).
- Vedic Friends Association (VFA).
- Country Club for Family Vacations.
- Patanjali Yog Peeth, Haridwar (PYS).

Subscriptions

Professional:

- CERN Courier: International Journal of High Energy Physics.
- Indian Association of Physics Teachers' Bulletin.
- Khagol: IUCAA Bulletin of Astronomy & Astrophysics.
- ArXive: hep-ph, physics-popular (On-line).

Others (Life Membership):

- Itihaas Diwakar, Neri, Hamirpur.
- Organizer/ Panchjanya
- Matrивandana, HP
- Chhatr Udghosh

- Reader Digest
- Gwakh Bharati, Solan..
- Organic Consumers Association (OCA for Health, Justice, and Sustainability).
- Science and Consciousness Conference (On-line).
- On-line journal of Center for Eco-Literacy.
- Sivananda Day-to-day (On-line).

Diverse Research Collaborations (At Present)

- Dr. Zoltan Batiz, CFTP Technical University Lisbon, PORTUGAL.
- Prof. P.K. Raina, IIT Ropar, INDIA: Double Beta Decay.
- Prof. Debasish Majumdar, SINP, Kolkata.
- Sh. Surya Prakash Kapoor, Researcher and Innovator: Geothermal Energy.
- Dr. Ravi Prakash Arya, Vedic Science and Philosophy of Science.

Countries Visited

- **More than 10 countries including USA, Russia, Germany, Italy, Switzerland and France.**

I certify that the information provided is correct to the best of my knowledge.

(Dr. Bhag Chand Chauhan)

Dr. B. C. Chauhan

List of Publications: 143 (As on August 2017)

Research Papers: 54

| <u>Citation indices</u> | All | Since 2012 |
|-------------------------|-----|------------|
| <u>Citations</u> | 307 | 53 |
| <u>h-index</u> | 10 | 4 |
| <u>i10-index</u> | 10 | 1 |

i) Papers with Impact Factor 5 and above: 10

- 1) Quark-lepton complementarity model based predictions for θ_{23}^{PMNS} with neutrino mass hierarchy, Gazal Sharma, Shankita Bhardwaj, **B. C. Chauhan** and Surender Verma, to appear as proceedings of the DAE Symposium in European Physics Journal C.
- 2) Search for Sterile Neutrino Signal in the 7Be Solar Neutrino Measurement with KamLAND, Ashish Sharma, Govind Singh, Gazal Sharma, Shankita Bhardwaj, Surender Verma and **B. C. Chauhan**, to appear as proceedings of the DAE Symposium in European Physics Journal C.
- 3) Bounds on Sterile Neutrino Component in the Solar Neutrino Flux", Govind Singh, Ashish Sharma, Gazal Sharma, Shankita Bhardwaj, Surender Verma and **B.C. Chauhan**, to appear as proceedings of the DAE Symposium in European Physics Journal C.

- 4) Probing CP Violation in Neutrino Oscillation Experiments and Leptonic Unitarity Quadrangle", Surender Verma, **B.C. Chauhan**, Shankita Bhardwaj and Gazal Sharma, to appear as proceedings of the DAE Symposium in European Physics Journal C.
- 5) Quark-Lepton Complementarity predictions for $\Theta_{23}^{\text{PMNS}}$ and CP violation.
Gazal Sharma and **B. C. Chauhan**; JHEP 1607 (2016) 075; *Impact Factor*=6.22.
- 6) Quark-Lepton Complementarity, neutrino and standard model data predict $\Theta_{13}^{\text{PMNS}}=9^\circ$.
Bhag C. Chauhan, Marco Picariello, Joao Pulido and E. Torrente-Lujan; Euro. Phys. J. C50 (2007) 573; *Citations: 43, Impact Factor*=5.25.
- 7) ${}^7\text{Be}$ neutrino signal variation in KamLAND.
Bhag C. Chauhan; JHEP 02 (2006) 035; *Citations: 3, Impact Factor*=6.22
- 8) Low energy solar neutrinos and spin flavor precession.
Bhag C. Chauhan and Joao Pulido and R. S. Raghavan; JHEP 07 (2005) 051;
Citations: 10, Impact Factor=6.22.
- 9) SNO, SuperKamiokande data, antineutrinos and sterile neutrinos.
Bhag C. Chauhan and Joao Pulido; JHEP 12 (2004) 040; *Citations: 6, Impact Factor*=6.22.
- 10) LMA and sterile neutrinos: a case for resonant spin flavor precession?
Bhag C. Chauhan and Joao Pulido; JHEP 06 (2004) 008; *Citations: 37, Impact Factor*=6.22.

ii) Papers with Impact Factor between 2 and 5: 11

- 11) A New Paradigm of Science.
B. C. Chauhan; Int. J. Rec. Sc. Studies 6 (3), 2912 (2015); ISSN 0976-3031; *Impact Factor*=3.908

- 12) Computational Holographic Imaging using 2D Scalar Wave.
Zoltan Batiz and **Bhag C. Chauhan**; Int. J. Engg. Sc. Res. Tech. 3(8), 584 (2014);
ISSN 2277-9655; *Impact Factor=3.449*.
- 13) Two Gallium data sets, spin flavour precession and KamLAND.
Bhag C. Chauhan, Joao Pulido and Marco Picariello; J. Phys. G: Nucl. Part. Phys. 34
(2007) 1803; *Citations: 4, Impact Factor=2.84*.
- 14) Gallium data variability and KamLAND.
Joao Pulido, **Bhag C. Chauhan** and Marco Picariello; Nucl. Phys. Proc. Suppl. 168
(2007) 137; *Citations: 2, Impact Factor=3.95*.
- 15) Neutrino mass matrices with vanishing determinant.
Bhag C. Chauhan, Joao Pulido and Marco Picariello; Phys. Rev. D73 (2006) 053003;
Citations: 36, Impact Factor=4.86.
- 16) Bounds on antineutrinos and sterile neutrinos from SNO and Superkamiokande data.
J. Pulido and **Bhag C. Chauhan**; Nucl. Phys. B (Proc. Suppl.) 145 (2005) 145;
Citations: 3, Impact Factor=3.95.
- 17) Time modulations and sterile neutrinos.
Bhag C. Chauhan and Joao Pulido; Nucl. Phys. B (Proc. Suppl.) 143 (2005) 488;
Impact Factor=3.95.
- 18) KamLAND, solar antineutrinos and the solar magnetic field.
Bhag C. Chauhan, Joao Pulido and E. Torrente-Lujan; Phys. Rev. D68 (2003)
033015; *Citations: 30, Impact Factor=4.86*.
- 19) MSW constraints on the matter density profiles in the solar interior.
S. Dev, Jyoti Dhar Sharma and **B.C. Chauhan**; Nucl. Phys. B (Proc. Suppl.) 118
(2003) 456; *Impact Factor=3.95*.
- 20) Resonant Spin Flavor Precession of solar neutrinos after SNO NC data.

Bhag C. Chauhan and Joao Pulido; Phys. Rev. D66 (2002) 053006; *Citations: 34, Impact Factor=4.86.*

21) RSFP constraints on neutrino parameters and solar magnetic fields from solar neutrino data.

B.C. Chauhan, U.C. Pandey and S. Dev; Phys. Rev. D59 (1999) 083002; *Citations: 9, Impact Factor=4.86.*

iii) Papers with Impact Factor between 1 and 2: 03

22) Predictions from non trivial quark-lepton complementarity.

Marco Picariello, **Bhag C. Chauhan**, Joao Pulido, Emilio Torrente-Lujan;
Int. J. Mod. Phys. A22, 5860 (2008); *Citations: 4, Impact Factor=1.09.*

23) RSFP constraints on the twisting profiles of the solar magnetic fields from solar neutrino data. U.C. Pandey, **B.C. Chauhan** and S. Dev; Mod. Phys. Lett. A13 (1998) 3201; *Citations: 3, Impact Factor=1.34.*

24) RSFP predictions for transverse solar magnetic field distributions from solar neutrino data.

B.C. Chauhan, U.C. Pandey and S. Dev; Mod. Phys. Lett. A13 (1998) 1163; *Citations: 6, Impact Factor=1.34.*

iv) Papers in Indexed Journals: 07

25) Dark Matter and Neutrinos, Gazal Sharma, Anu and B.C.Chauhan, Physics Education, Volume 32, Number 4, Article Number: 7, (Sep.-Dec.2016).

26) Holographic Principle and Quantum Mechanics.

Zoltan Batiz and **Bhag C. Chauhan**; NeuroQuantology 7, (2009) 657; ISSN 1303 5150.

27) Scientific Developments in Ancient India.

Bhag C. Chauhan, 'Vedic Science', Vol.8, No. 3 (2008) 34; ISSN No. 0975-0312.

28) Spectral Predictions for KamLAND Solar Mode.

Bhag C. Chauhan; Phys. Scr. T127 (2006) 14; ISSN 1402-4896; *Impact Factor*=1.30.

29) A natural explanation of Be/B neutrino anomaly in the framework of RSFP scenario.

B.C. Chauhan and S. Dev; J. Phys. Soc. Jpn. 66 (1997) 917; *Impact Factor*=1.585.

Citations:2

30) KamLAND and solar antineutrino spectrum.

Bhag C. Chauhan, Joao Pulido and E. Torrente-Lujan; Physics of Atomic Nuclei 67

(2004) No. 6, c. 1-3; ISSN 1063-778; *Impact Factor*= 0.510; *Citations*: 3.

31) RSFP constraints on neutrino parameters and the twisting structure of solar magnetic fields from the solar neutrino data.

S. Dev, J. D. Sharma, U. C. Pandey, S. P. Sud and **B.C. Chauhan**; Pramana J. Phys. 61 (2003) 67.

v) Papers in Refereed Journals with ISSN/ISBN Numbers: 08

32) Ancient India: The Cradle of knowledge & Information, B. C. Chauhan; Itihas Diwakar, Volume (3), (Oct.2016); **ISSN 2250-2769**.

33) Geothermal Tourism Potential in Himachal Pradesh; Arun Bhatia and **B.C. Chauhan**, Amity Research Journal in Tourism, Aviation and Hospitality, 01, Jan-June 2016.

34) Science in Ancient Indian Scriptures: Bhumi Sukt (Atharv Ved) and Heat inside Earth.

B. C. Chauhan; Itihas Diwakar 8(2) 21 (2015); **ISSN 2250-2769**.

35) Geothermal Energy and Earthquakes in Western Himalayas.

B. C. Chauhan; IJSRSET 1(1), 188 (2015); **ISSN: 2394-4099**.

36) An Empirical Model to Attain Peace & Prosperity.

B.C. Chauhan; IJMPSR 2, 2(1), 51 (2014); **ISSN: 2348-5736**.

37) Earthquake and Geothermal Energy.

S.P. Kapoor and **B.C. Chauhan**; Uni. J. Geo. Sc. 2(5), 141 (2014); **ISSN: 2331-9615**.

38) Mamleshwar Mahadev Temple of Karsog.

B. C. Chauhan; Itihas Diwakar 4 (4), 17 (2012); **ISSN 2250-2769**.

vi) Chapter in Books with ISSN/ISBN Numbers: 05

39) Physics and Phenomenology of Dark Matter.

Gazal Sharma, **B.C. Chauhan** and Debasish Majumdar; "Physics in New Dimensions", p69, Bharti Publications (2017); ISBN- 978-81-933475-7-7.

40) Physics of Neutrinos: The Elusive Particles.

Govind Singh, **B.C. Chauhan** and Debasish Majumdar; "Physics in New Dimensions", p33, Bharti Publications (2017); ISBN- 978-81-933475-7-7.

41) Power Potential of Geothermal Energy

Supriya Thakur, Payal Chaudhary and B. C. Chauhan, "Physics in New Dimensions", p33, Bharti Publications (2017); ISBN- 978-81-933475-7-7.

42) Geothermal Energy: A Natural Source for Sustainable Development.

B.C. Chauhan; Managing our Resources: Perspectives and Planning, ch.8, p76; Bharti Publications (2014) ISBN: 978-93-81212-85-1 (2014).

43) Light Sterile Neutrinos and Dark Sector of Universe.

B.C. Chauhan; Proceedings of International Conference on Recent Trends in Basic and Applied Sciences, May 1-2, 2015, p3; ISSN: 2395-3373.

vii) Papers / Listed in Archives only: 11

44) Model independent constraints on Solar Neutrinos.

- Lalsingh, **Bhag C. Chauhan**, Ravidutt, Kuldeep Kumar and S. Dev; hep-ph/1102.4917.
- 45) Green's Function Formalism of Holography with Arbitrary Mass, Spin, and Dimensionality.
Zoltan Batiz and **Bhag C. Chauhan**; Physics: Optics/1109.4996.
- 46) Ancient India: The Light House of Knowledge; **B.C. Chauhan**; Proceedings of INECS 2009.
- 47) Neutrino Dipole moment and Solar Experiments.
M. Picariello, **Bhag C. Chauhan**, C.R. Das, Fernandez-Melgarejo, D. Montanino, J. Pulido,
E. Torrente-Lujan; hep-ph/0907.0637.
- 48) A Tempt to Measure Reality; **Bhag C. Chauhan**; physics/0602051.
- 49) Solar Neutrinos: Spin Flavor Precession and LMA.
Joao Pulido, **Bhag C. Chauhan** and R. S. Raghavan; 12th Lomonosov Conference on Elementary Particle Physics; [hep-ph/0511341]; *Citations: 2*
- 50) Neutrino mass matrices with vanishing determinant and theta (13).
Bhag C. Chauhan, Joao Pulido and Marco Picariello; hep-ph/0510272; *Citations: 2*.
- 51) Neutrino transition magnetic moments and the solar magnetic field on the light of the KamLAND evidence.
V. Antonelli, **B.C. Chauhan**, J. Pulido and E. Torrente-Lujan; Published in the proceedings of 8th International Workshop on Topics in Astroparticle and Underground Physics (TAUP 2003), Seattle (USA) [hep-ph/0310264].
- 52) SCIENCE: A Solid Whole; **Bhag C. Chauhan**; physics/0301069.
- 53) Solar magnetic field profiles: A natural consequence of RSFP scenario.
Bhag C. Chauhan, hep-ph/0204160; *Citations: 9*.

54) Science In Trauma; **Bhag C. Chauhan**; FISIST/21-2002/CFIF, physics/0210088.

viii) Abstracts Published in Conference Abstract Proceedings: 30

55) Model Independent Search for Sterile Component in the Solar Neutrino Flux.

Gazal Sharma, Ashish Sharma and **B. C. Chauhan**, International Conference SESFC-2017 at Manali, 1-3 July, 2017.

56) Gazal Sharma, Lal Singh and **B. C. Chauhan**, Gazal Sharma, Ashish Sharma and **B. C. Chauhan**, International Conference SESFC-2017 at Manali, 1-3 July, 2017.

57) Model Independent Search for Sterile Component in the Solar Neutrino Flux.

Gazal Sharma, Lal Singh and **B. C. Chauhan**, International Conference SESFC-2016 at Dharamshala, 11-13 June, 2016.

58) Samgoshthi: Ithaas Lekhan mein Lok Gathaon ka Yogdan, 2-4 October 2015, p23.

59) Energy Needs, Geothermal Energy and Environmental Issues. Proceedings of National Seminar on 11-12 April 2015 by Him Science Congress at Ballabh College Mandi (HP).

60) Low Energy Solar Neutrinos and Search for Dark Matter Candidate. Proceedings of the workshop on Light from Dark Side of Universe (17-20, March 2015) at Banaras Hindu University, Varanasi (UP).

61) Thermal Power of Earth: A Source of Green Energy. Proceedings of ICSSR sponsored National Seminar on 20-21 February 2015 at Govt. College Nalagarh, Solan.

62) Can Geothermal Power production help in Earthquake Disaster management?

Proceedings of National Workshop on Status of natural Hazards in HP (6-8th Nov. 2014), at CUHP.

63) Harnessing Geothermal Energy: Earthquake Disaster Free Himachal, Proceedings of 1st Himachal Science Congress, Shimla (15th October 2014).

- 64) An Imperative Course of Science.
B.C. Chauhan; Conference BHU Proceedings of AISSQ-2014.
- 65) Geothermal Energy: A Natural Resource for Sustainable Development, p45;
Proceedings of National Seminar on Natural Resource Management: Present Needs
and our Common Future by Youth for Sustainable Development and MAU, Baddi,
March 2014.
- 66) Geothermal Tourism Potential in HP, p5; Proceedings of National Seminar on Natural
Resource Management: Present Needs and our Common Future by Youth for
Sustainable Development and MAU, Baddi, March 2014.
- 67) Harnessing Geothermal Energy in India, IL5; Proceedings of National Seminar on
Recent
Trends in Materials, Energy & Environment by Sri Sai University, Palampur; Jan. 2014.
- 68) Ancient India: The Light House of Knowledge.
B.C. Chauhan; Proceedings of Conference 'INECS' at DU on 27th November 2009.
- 69) Model independent predictions for ${}^7\text{Be}$ neutrino signal in KamLAND.
Bhag C. Chauhan and Kuldeep K. Sharma; International Workshop on Theoretical
High
Energy Physics (15-20 March 2007) at IIT Roorkee, INDIA.
- 70) QLC Predictions for θ_{13} .
Bhag C. Chauhan, Marco Picariello, Joao Pulido and E. Torrente-Lujan; 17th DAE-
BRNS High Energy Physics Symposium (11-15 Dec. 2006) at IIT Kharagpur, INDIA.
- 71) Time Variations and Low Energy Solar Neutrinos. International conference on Frontiers
in Contemporary Physics-III (2005) in Vanderbilt University, Nashville, USA.
- 72) Solar antineutrino bounds and magnetic field: spin flavor precession after KamLAND.

J. Pulido, **Bhag C. Chauhan** and E. Torrente-Lujan; Electronic version of JHEP as proceedings of the conference (AHEP-2003).

73) Science and Human Consciousness. 12th International Congress of Logic Methodology and

Philosophy of Science, **B.C. Chauhan**; Oviedo (Spain) August 7-13, 2003.

74) MSW constraints on the matter density profiles in the solar interior.

S. Dev, **B.C. Chauhan** and J.D. Sharma; XIVth symp., (2000-01), INDIA.

75) A re-examination of the solar neutrino problem in the RSFP scenario with solar magnetic

fields.

76) S. Dev, J.D. Sharma and **B.C. Chauhan**; XIVth DAE symp., (2000-01), INDIA.

77) RSFP constraints on the neutrino electromagnetic properties and twisting solar magnetic fields.

B.C. Chauhan, Jyoti Dhar and S. Dev; XIIIth DAE symp., (1998-99), INDIA.

78) RSFP constraints on solar magnetic fields from solar neutrino observations.

B.C. Chauhan, U.C. Pandey and S. Dev; XIIIth DAE symp., (1998-99), INDIA.

79) Implications of solar neutrino observations for the twisting profiles of the solar magnetic fields in the RSFP scenario.

U.C. Pandey, **B.C. Chauhan** and S. Dev; XIIIth DAE symp., (1998-99), INDIA.

80) A natural explanation of Be/B neutrino anomaly in the RSFP scenario.

B.C. Chauhan and S. Dev; XIIIth DAE symp., (1998-99), INDIA.

81) Dark Matter Halo: A Fluid Model.

B.C. Chauhan, IVth Young Astronomer's Meet (YAM'96), INDIA.

82) Propagation of neutrino with Zee-type mass matrices in the presence of a magnetic field.

B.C. Chauhan, S.P. Sud and S. Dev; XIIth DAE symp., (1996-97), INDIA.

83) RSFP predictions for solar magnetic field distributions from solar neutrino data.

B.C. Chauhan, U.C. Pandey and S. Dev; XIIth DAE symp., (1996-97), INDIA.

84) Implications of solar neutrino experiments for magnetic moment solution of solar neutrino problem.

U.C. Pandey, **B.C. Chauhan** and S. Dev; XIth DAE symp., (1994-95), INDIA.

Articles Published in Local Magazines: 14

85) Manu Vyavastha ka Vatvik Swroop: Divya Astha Newspaper, 27th May and 3rd June, 2017.

86) Himachal Bhartiy Kal Ganana: Vaigyanik Kasauti Par; B.C. Chauhan, Nav Chaittanya, p39 (2016).

87) Dharam Kya Hai ? **B. C. Chauhan**, Karsog Nalwar Smarika 2013.

88) **Career Helpline**, Published by Divya Himachal Newspaper in, 2013, July. 2015, Sept. 2015, and June 2016.

89) A Two Day symposium on History writing of ancient Temples of Karsog.

Bhag C. Chauhan, Nalwar Smarika; 2012.

90) India, World and Science; **Bhag C. Chauhan**, Karsog Nalwar Smarika 2011.

91) Historical Prospective of Mamel Shiv Temple; **Bhag C. Chauhan**, Karsog Nalwar Smarika 2010.

92) Science in Ancient India; **Bhag C. Chauhan**, College Magazine Kamaksha; 2007.

93) Shiksha Aur Jagaran; **Bhag C. Chauhan**, Him Competition Vision, Vol.5, May-June 1996.

94) Quest for Truth: Some Musings; **Bhag C. Chauhan**, Devdaru, HPU Journal Issue 1991.

Magazines/ Monograph: 07

- 95) **A Monograph:** "An Essence of Hinduism"; Dedicated to NRI Hindus (2006).
- 96) **Proceedings:** Two Day Workshop on Teaching, Learning & Evaluation and Office Procedure; Sponsored by UGC 2010.
- 97) **Monthly Magazine:** 1st Competition Magazine of Himachal 1996-97: *Him Competition Vision (05 Issues)*. **Publisher and Editor-in-Chief.**

Documents/ Projects Reports Supervised: 38

- 98) **Project:** "Health Hazards of Information Technology" submitted to Academic Staff College in June 2012.
- 99) **M. Phil Thesis (03)**
- 100) **M. Sc. Projects (14+12)**
- 101) **Community Connect Projects (03)**
- 102) **IGNOU Projects on BTS (02)**
- 103) **Inspire Projects (03).**

