ACADEMIC PROFILE OF FACULTY MEMBER

1. Name: **Dr. B. R. Kaushal**

2. Designation: **Professor and Head**

3. Qualification: **M.Sc./Ph. D**

4. Area of Specialization/Research Field: **Entomology/Entomology and Earthworm ecology**
5. Awards/Recognition: **Gold Medal awarded by Indian Academy of Environmental Sciences, Hardwar for high academic contribution in the disciplines of Environment & Bio-Sciences.**
6. Number of research projects (**Completed**):

i). "Damage potential and control measures for acorn worm, ***Calandra sculpturata*** in the oak- forest of Kumaun region. **Sanctioned by the Department of environment & Forests, New Delhi vide letter no. D.O.En. 14013/(6)/83- ER (MAJOR RESEARCH PROJECT).**

ii). "Energy flow and nutrient dynamics of Arthropods in a grassland and forest ecosystem of Kumaun region". **Sanctioned by the University Grant Commission, New Delhi vide letter no. 23-336/84 (SR-II) (MAJOR RESEARCH PROJECT).**

iii). "The influences of earthworm on decomposition and nutrient circulations in the oak, pine forests and crop fields of Kumaun Himalayas". **Sanctioned by the of environment & Forests, New Delhi vide letter no. 14/16/89-ER (MAJOR RESEARCH PROJECT).**

iv). "Energy and nitrogen utilization by the larvae of *Pieris brassicae*". **Sanctioned by the University Grant Commission, New Delhi vide letter no. 26-1 (846/91 (rbb-1) dated 20 March 1992. (MINOR RESEARCH PROJECT).**

v). "The role of canopy arthropods in nutrient cycling in pine, oak and mixed–forests". **Sanctioned by the University Grant Commission, New Delhi vide letter no. F. -26/92 (SR II) dated 30 March 1993. (MAJOR RESEARCH PROJECT).**

vi). "The impact of soil macro fauna on soil fertility and plant growth in the Kumaun region". **Sanctioned by the Department of Science & Technology, New Delhi letter no. SP/SO/CO 6/94 dated 21 Nov. 1995. (MAJOR RESEARCH PROJECT).**

vii). "The influence of earthworms on C and N processes in a grassland an managed ecosystems in Kumaun Himalaya". **Sanctioned by the University Grant Commission, New Delhi vide letter no. F.3-50/98 (SR-II) dated 11 March 1998 (MAJOR RESEARCH PROJECT).**

viii). "Studies of entomofauna, their diversity and relationship to the forest and agro- of Kumaun- region". **Sanctioned by the Council of Science & Technology, U.P. vide letter no.CST/D- 1936 dated 28.10.1998 dated 21 Nov., 1995. (MAJOR RESEARCH PROJECT).**

7. Number of Ph.D.s awarded: **16**
8. Number of candidates working for Ph.D. award: **05**

9. **Publications:**

Research Article Published:

(Mention complete list of publications indicating authors, title, name of the journal, year, volume and page numbers):

i). H. Pande, D. Goswami, and B. R. Kaushal (2013). The growth and reproduction of *Eisenia fetida* (Oligochaeta) in cow manure and field soil. **J. Env. Bio- Sci., 27 (1): 35- 43.**

ii). P. Pandey, P. C. Joshi, and B. R. Kaushal (2013). Role of insects in sustaining a forest ecosystem in western Himalaya, India. **J. Appl. Biosci., 39 (1): 35- 40.**

iii). H. Pandey, D. Goswami, and B. R. Kaushal (2012). Earthworm communities and dynamics in some cropping systems of Kumaun Himalaya. **J. Env. Bio- Sci., 26 (2): 83- 88.**

iv). Niharika S. Bisht, Kanchan Bhandari, Raveesh Tripathi, and B. R. Kaushal (2012). Energy budget of *Pieris brassicae* L. larvae (Lepidoptera: Pieridae) fed on three host plant species. **J. Env. Bio- Sci., 26 (2): 93- 97.**

v). Niharika S. Bisht, and B. R. Kaushal (2012). Pest assessment: Old world bollworm, *Helicoverpa armigera* (Hubner), (Lepidoptera: Noctuidae) under laboratory conditions. **J. Env. Bio- Sci., 26 (1):135-137.**

vi). P. C. Joshi, L. Khamashon, B. R. Kaushal (2012). Predation of *Adalia tetraspilota* (Hope) (Coleoptera: Coccinellidae) on green peach aphid (*Myzus persicae,* Sulzer). **J. Env. Bio- Sci., 26 (1):** 95- 97.

vii). P. C. Joshi, L. Khamashon, B. R. Kaushal (2012).New additions of Coccinellid beetles (Coleoptera: Coccinellidae) to the already reported species of Uttarakhand. **Nature and Science, 10 (6):** 26- 30.

viii). D. Goswami, H. Pandey, R. Bisht and B. R. Kaushal (2011). Litter consumption and cast production by the earthworm, *Amynthas alexandri* and their effects on plant growth under laboratory conditions. **J. Env. Bio- Sci., 25(1):** 41- 43.

ix). D. Goswami, H. Pandey, R. Bisht and B. R. Kaushal (2011).The growth and reproduction of the earthworm *Amynthas alexandri* in different food sources. J**. Env. Bio- Sci., 25(1):** 45- 48.

x). Poonam Dev, Manisha Tewari and B. R. Kaushal (2009).Diversity and abundance of insects in a cropland of central Himalayan Bhabar region of Kumaun, Uttarakhand. **Entomon, 34(1):** 11- 21

xi). Manisha Tewari and B. R. Kaushal (2007).Density, diversity and herbivory of aboveground insects in a grassland community of central Himalayan tarai region**.. Tropical Ecology, 48(1): 71- 78**

xii). H. Pandey, D. Bharti, R. Bisht and B. R. Kaushal (2007). Reproductive potential of the earthworm, *Metaphire posthuma* Vail (Oligochaeta) in different substrates. **Tropical Ecology, 48(1): 107- 114.**

xiii). H. Pandey, D. Bharti, R. Bisht and B. R. Kaushal (2006).Feeding and casting activities of the earthworm, O*ctolasion tyrtaeum* Savg., and their effects on plant growth under laboratory condition. **Tropical Ecology, 47(2): 291- 294**

xiv). R. Bisht, H. Pandey, D. Bharti and B. R. Kaushal (2003).Population dynamics of earthworms (Oligochaeta) in cultivated soils of central Himalaya tarai region. **Tropical Ecology, 44: 227- 232.**

xv). R. Dhapola and B. R. Kaushal (2002).Role of earthworm on Carbon and Nitrogen cycling processes in a grassland soil. **In: Gyanodaya Prakashan, Nainital: 399- 406**

xvi). S. P. S. Bisht and B. R. Kaushal (2001).Estimation of earthworm protein for poultry industry. **Him. J. Env. Zool., 15:117- 122**

xvii). S. P. S. Bisht and B. R. Kaushal (1999).Laboratory observations on Incubation and Hatching pattern of the earthworm *Amynthas alexandri.* **Him. J. Env. Zool., 13: 13-17**

xviii). B. R. Kaushal, S. Bora, B. Kandpal, S. P. S. Bisht and R. Dhapola (1999). Abundance and seasonal activity of earthworms in croplands of Kumaun Himalaya. **European Journal of Soil Biology, 35(4): 171- 176**

xix). B. R. Kaushal (1999).The impact of soil macrofauna on soil fertility and plant growth. **Final Technical Report submitted to the DST, New Delhi: 35 pp.**

xx). B. R. Kaushal, S. Bora and B. Kandpal (1999).Growth and cocoon production by the earthworm, *Metaphire houletti* (Oligochaeta) in different food sources. **Biology and Fertility of Soils, 29: 394- 400**

xxi). B. R. Kaushal and P. C. Joshi (1997).Density, biomass and nutrient concentration of aboveground insects in a Temperate Grassland Community. **Entomon, 22: 41- 49**

xxii). S. Kalia and B. R. Kaushal (1996).Biology of *Dicranognathus nebulosus* Redt. (Coleoptera: Attelabidae) infesting oak acorns in Kumaun Himalaya. **Entomon, 22: 147- 152.**

xxiii). B. R. Kaushal and S. Kalia (1995).Growth and cocoon production by the earthworm, *Drawida nepalensis* (Oligochaeta; Moniligastridae) in oak and pine litter. **Pedobiologia, 39: 417- 422**

xxiv). B. R. Kaushal, S. Kalia and S. P. S. Bisht (1995).Population dynamics of *Amynthas alexandri* (Annelida: Megascolecidae) in cultivated soils of Kumaun Himalayan. **Applied Soil Ecology, 2(2): 125- 130**

xxv). B. R. Kaushal and S. P. S. Bisht (1994).Population dynamics of *Amynthas alexandri* (Annelida: Megascolecidae) in a Kumaun Himalayan pasture soil. **Biology and Fertility of Soils, 17:** 9-13

xxvi). B. R. Kaushal, S. P. S. Bisht and S. Kalia (1994).Effect of diet on cast production by the Megascolecid earthworm *Amynthas alexandri* in laboratory culture. **Biology and Fertility of Soils, 17:** 14- 17

xxvii). B. R. Kaushal, M. C. Pant and S. Kalia (1993).Aspects of the biology and control of three species of acorn weevils infesting oak acorns in Kumaun Himalaya. **Journal of Applied Entomology, 388- 397**

xxviii). B. R. Kaushal and S. P. S. Bisht (1992).Growth and cocoon production by *Drawida nepalensis* (Oligochaeta). **Biology and Fertility of Soils, 19: 205- 212**

xxix). B. R. Kaushal and S. Kalia (1991).An energy budget of the larval stages of *Dicranognathus nebulosus* (Coleoptera: Attelabidae). **Entomon, 16: 193-201**

xxx). P. S. Dhanraj, Rup Lal and B. R. Kaushal (1991).Detoxification of aldrin and phorate by *Saccharomyces cerevisiae*. **Biomedical Letters, 46: 109- 112**

xxxi). B. R. Kaushal and P. C. Joshi (1990).Energy dynamics of grasshopper population in a temperate grassland community. **Aus. J. Ecology**, **16(3): 295- 300**

xxxii). B. R. Kaushal and R. Joshi (1990).Energy budget of larval stages of acorn weevil, *Sitophilus glandium* Mshl. (Coleoptera: Curculionidae). **Phytophaga, 3(1): 1- 12**

xxxiii). B. R. Kaushal, R. Joshi and S. Kalia (1989).Damage potential and control measures for acorn worm, *Calandra sculpturata* in oak forests of Kumaun region. **Final Technical Report, submitted to DOEn., New Delhi, 154 pp**

xxxiv). P. S. Dhanraj, B. R. Kaushal and Rup Lal (1989).Effects of uptake by and metabolism of aldrin and phorate in a Protozoan, *Tetrahymena pyriformis*. **Acta Protozoologica, 28(2): 157- 163**

xxxv). B. R. Kaushal and S. Kalia (1989).The effects of Dicranognathus nebulosus (Coleoptera: Attelabidae) on acorns of Quercus leucotrichophora. Ecological Entomology, 14: 239- 241

xxxvi). B. R. Kaushal, S. Kalia and P. C. Joshi (1988).Energy budget of *Antheraea proylei* Jolly (Lepidoptera: saturniidae) fed on *Quercus leucotrichophora*. **J. Ani. Morph. & Physiol., 35(2): 169- 178**

xxxvii). B. R. Kaushal and P. C. Joshi (1988).Population density, biomass and secondary net production of aboveground insects in a temperate grassland. **Proc. Ind. Acad. Sci., 97 (4): 169- 178**

xxxviii). B. R. Kaushal and L. K. Vats (1987).Population density, biomass and secondary net production of coleopterans in tropical grassland. **Entomon, 12(2): 161- 17821**

xxxix). B. R. Kaushal and P. C. Joshi (1987).Composition and trophic structure of the insect community in a temperate grassland. **Him. J. Zool., 1: 10- 13**

xl). B. R. Kaushal and L. K. Vats (1985).Intra-specific variation in calorific content of two phytophagous insects Hieroglyphus banian and Belenois mesentina. Ind. J. Ecol., 13(1): 167-168S

xli). B. R. Kaushal and L. K. Vats (1985).Population dynamics and energy budget of *Hieroglyphus banian* Fabr. (Orthoptera: Acrididae). **J. Anim. Morph. Physiol., 32(1& 2): 107- 118**

xlii). B. R. Kaushal, M. C. Pant and D. P. Semwal (1984).Population dynamics and biomass standing crop of coleopterans in a mixed oak forest. **Him. Res. Dev., 3(II): 14-16**

xliii). L. K. Vats and B. R. Kaushal (1984).Taxonomic composition, trophic structure and seasonal diversity in a Tropical grassland ecosystem. **Proc. IV All India Sym. Environ. Biologists Conf., 181- 194**

xliv). B. R. Kaushal and L. K. Vats (1984). Fluctuations of Hymenopteran population and biomass in a grassland ecosystem. **Proc. Ind. Natl. Acad. Part B, 50(6): 565- 570**

xlv). B. R. Kaushal and L. K. Vats (1984). Population dynamics, biomass and secondary production of Hemipterans in a grassland community. **Ind. J. Ecol., 11(1): 62- 67**

xlvi). B. R. Kaushal and L. K. Vats (1984).Population dynamics, secondary productivity and energy budget of *Aulacobothrus strictus* Biol. (Orthoptera: Acrididae). **Proc. Ind. Natl. Acad., 50(3): 286- 294**

xlvii). B. R. Kaushal and L. K. Vats (1984).Population dynamics, biomass and net secondary production of Orthopterans with emphasis on acridians in a tropical grassland. **Acta Oecol./ Oecol. Gener., 5(4) 333- 349**

xlviii). B. R. Kaushal and L. K. Vats (1983).Population dynamics, biomass production of aboveground insects in a tropical grassland. **Proc. Ind. Acad. Sci., 92(6): 447- 452**

xlix). B. R. Kaushal and L. K. Vats (1983).Population dynamics, biomass standing crop of aboveground insects in a tropical grassland of India. **Acta Oecol./ Oecol. Gener., 5(2): 51- 158**

l). B. R. Kaushal and L. K. Vats (1983).Population dynamics and energy budget of *T. pulvinata* Livarov and *P. infumata* Brunn. (Orthoptera: Acrididae). **Proc. Ind. Acad. Sci., 92(6): 437- 446**

li). B. R. Kaushal and L. K. Vats (1983).Energy budget of Pieris brassicae larvae (Lepidoptera: Pieridae) fed on four host plants. Agric. Ecosys. & Env., 10: 385- 398

lii). L. K. Vats and B. R. Kaushal (1982).A quantitative study of food consumption, assimilation and growth in *Pieris brassicae* larvae (Lepidoptera: Pieridae) on two host plants II. **Ind. J. Ecol. 9 (2): 292- 297**

liii). L. K. Vats and B. R. Kaushal (1981).Population dynamics, secondary productivity and energy budget of *Parahieroglyphus bilineatus*. **Acta Oecol./ Oecol. Gener., 2(4): 355- 369.**

liv). L. K. Vats and B. R. Kaushal (1980).Fluctuations of lepidopteran population, secondary productivity and energy flow through *Belenois mesentina* Cr. (Pieridae). **Agro- Ecosystems, 6:161- 176.**

lv). L. K. Vats and B. R. Kaushal (1979). Food consumption, assimilation and growth in the larvae of *Pieris brassicae* Linn. (Lepidoptera: Pieridae) on two host plants. **J. Anim. Morph. Physiol., 26(1): 257- 264**

lvi). L. K. Vats and B. R. Kaushal (1977).A quantitative study of food consumption, assimilation and growth in *P. brassicae* (Lepidoptera: Pieridae) on two host plants. Proc. **All India Sym. Environ. Biol., 109- 114**

10. **Conferences/seminar organized:**

Convener, National Seminar on "Response of eco-biological components to the phenomenon of global warming from 26-27 September 2009 organized by Department of Zoology, DSB Campus, Kumaun University, Nainital- 263002 (Funded by Kumaun University, Nainital; Uttarakhand Council of Science & Technology, Dehradun and Department of Science & Technology, New Delhi).

11. **Academic/Administrative positions held:**

i). Director, DSB Campus, Nainital since September 2011

ii). Coordinating Member NAAC Assessment Committee since September 2011

iii). Coordinator UGC NET Examination since December 2012

iv). Member, Advisory Committee, Academic Staff College, Kumaun University, Nainital

v). Head, Department of Zoology from 1 May 2011.

vi). Dean Coordinator, DSB Campus, Kumaun University, Nainital from October 2007 to September 2009.

vii). OSD 9th Kumaun University Convocation 2008 to DSB Campus, Nainital.

viii). Dean Students Welfare, DSB Campus, Kumaun University, Nainital from 7 July 2007 to 6 July 2010.

ix). Chief Proctor, DSB Campus, Kumaun University, Nainital

x). Centre Supdt. in Annual Examination of Kumaun University, Nainital; Uttarakhand Open University, Haldwani; JAM- 2008-09 of IIT, Roorkee; Higher Judiciary Examinations 2008, 2009, Uttranchal High Court, Nainital; MAT examination of AIMA, New Delhi; Ph.D Entrance Examination, 2010 of H.N.B. Garhwal Central University, Srinagar.

xi). Coordinator Admission Committee (B.Sc. I) for several years.

12. **Membership to professional Organizations/Associations:**

i). Expert member; Commission for Scientific & Technical Terminology for Hindi-English Vocabulary in Biotechnology (Ministry of HRD, Department of Higher Education, New Delhi).

ii). External Expert (Project); Department of Science & Technology, New Delhi

iii). External Expert (Project); Ministry of Environment & Forests, New Delhi

iv). Member; NAAC Bangalore